UIC N68335

MILITARY VALUE DATA CALL

TECHNICAL CENTERS

Category	Technical Center/Lab
Technical Center Site	NAWCADLKE
Location/Address	Lakehurst, NJ

		Page
Mission		
1.	Mission Statement	3
2.	Joint Service Missions	3
Technical Functions		
3.	Technical Functions Resource Allocations	4
Manpower		
4.	Work Breakdown Structure	5
5.	Technical Staff Qualifications	10
Facilities and Equipment		
6.	Special Facilities/Equipment Resources	19
7.	General Facilities/Equipment Resources	19
Location		
8.	Geographic Location	22
Features and Capabilities		
9.	Computational Facilities	23
10.	Mobilization Responsibility and Capability	25
11.	Range Resources	26
Quality of Life		
12.	Military Housing	27
13.	MWR Facilities	36
14.	Base Family Support Facilities	38
15.	Metropolitan Areas	39
16.	VHA	40
17.	Off-base Housing Rental and Purchase	41
18.	Sea Intensive Ratings	42
19.	Commute	43

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

20.	Educational Opportunities	44
21.	Employment Opportunities	54
22.	Medical/Dental	54
23.	Crime Rate	55

TAB A Technical Operations: Functional Support Area - Life Cycle Work Area Form

TAB B Facilities and Equipment: Facilities/Equipment Capability Form

TAB C Range Resources: Range Capability Form

Appendix A Functional Support Areas - Life Cycle Work Areas List

Appendix B Definitions for Functional Support Areas - Life Cycle Work Areas

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

MILITARY VALUE MEASURES

MISSION

1. **Mission Statement.** State the officially assigned mission of this activity and cite the reference document(s) that assigns the mission.

To conduct programs of technology development, engineering, developmental evaluation and verification, systems integration, limited manufacturing, procurement, integrated logistic support requirements development/management, and Fleet engineering support for Aircraft Platform Interface (API) systems including: terminal guidance, recovery, handling, propulsion support, avionics support, servicing and maintenance, and aircraft/weapons/ship compatibility and takeoff. To provide, operate, and maintain product evaluation and verification sites, aviation and other facilities, and support services (including development of equipment and instruction: for API systems and other Department of Defense programs. To provide facilities and support services for tenant activities and units as designated by appropriate authority.

Ref: OPNAVNOTE 5450 Ser 09B22/1U510503 of 23 Dec 91 with changes amended by NAVAIR 28 Jan 93.

2. **Joint Service Missions.** State any officially assigned joint/lead service assignments missions and cite the document(s) that assigned them.

None

TECHNICAL FUNCTIONS

3. **Technical Functions Resource Allocations.** Appendix A provides a list of numbered functional support areas that cover the spectrum of naval warfare and support operations. Additionally, Appendix A provides a list of numbered life-cycle work areas that cover the "cradle to grave" spectrum of Navy systems acquisition. Utilizing the two lists at Appendix A, each activity will break out its entire FY1993 technical program within any applicable intersections of these two defining schemes (for example, functional support area #5.2 - life cycle work area #3 will identify the activity's level of resources allocated to sensors and surveillance systems, radar systems in advanced development). Definitions for each functional support and life cycle work area are provided in Appendix B.

a. Use the form at Tab A of this data call to provide data on work years and expenditures for FY1993 to support each applicable intersection of functional support areas and life cycle work areas. When necessary, estimate data to the best of your ability

b. Similarly, use the Tab A forms to report separately on your detachments or sites that have not received this data call directly. This data may be consolidated when the detachments or sites perform work in the same area. When necessary, estimate data to the best of your ability.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

MANPOWER

4. Work Breakdown Structure.

a. Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 March 1994. If you are collocated with one of your subordinate base keeper commands (i.e., a NAWS or NAS co-ocated with a NAWC Division), describe the differences in the functions of each and provide a separate Table 4.1 for the subordinate command. Include this command in the Table 4.1 submission for your Activity.

b. Similarly, use Table 4.2 (below) to provide general support function data for all your detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (4.2). Provide a list of the detachments whose data is included in Table 4.2. For each identified detachment in this list, include its name, location, UIC, and number of civilian and military personnel onboard.

In addition, if any of your detachments or separate sites not receiving an individual data call have over 50 civilian personnel or own technical facilities, provide separately a description of the site, the functions performed there, photographs showing the facilities and state the reason for that site's existence and the necessity for it to be at that location.

c. Use Table 4.3 (below) to provide estimated data, for your activity only, to reflect the anticipated impact of previous BRAC decisions that have not yet been implemented. This data should provide the deltas from Table 4.1.

NOTES:

[1] Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

Contract Workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

Civilian Personnel Onboard: Full Time Permanent (FTP) employees.

[2] Any categories of personnel that are employed to support other Activities should be noted with the name of the additional Activity supported.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

DATA CALL 5

Revised pg UIC N68335

Table 4.1, General Support Resources for (Activity: NAWCADLKE) (UIC:N68335)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	14,585	30	28	0	11	25
Comptroller	16,675	34	35	0	1	0
Admin	67,682	37	36	10	0	0
Human Resources	13,551	0	0	0	0	0
OPERATIONS SUPPORT						
Supply Management	344,621	133	139	9	6	39
Consolidated Computational Computer Support	27,736	0	0	0	0	0
Information Systems and Communications	30,578	78	78	20	1	1
Safety/OSH/Environmental	4,732	11	11	1	0	0
INFRASTRUCTURE						
Physical Security	11,037	29	30	(R) 22	0	27
Public Works/Staff Civil Engr	184,571	193	195	(R) 60	4	0
Fire Protection	11,976	57	55	0	0	0
Medical/Dental	16,951	0	0	0	0	0
Military Support	665,960 (R)	38	26	0	1	15
Air/Waterfront Operations	655,419	3	3	0	2	73
Other	194.599	0	0	0	0	0
TECHNICAL STAFF						
Technical Operations	[redacted]		(R) 1,229	(R) 124	12	37
Totals	2,260,673 (R)	643	(R) 1,865	(R) 246	38	217

(R)

NAWCHQ Change
ROC NAWC-21D
9/19/94

Table 4.1, General Support Resources for (Activity: NAWCADLKE) (UIC:N68335)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	14,585	30	28	0	11	25
Comptroller	16,675	34	35	0	1	0
Admin	67,682	37	36	10	0	0
Human Resources	13,551	0	0	0	0	0
OPERATIONS SUPPORT						
Supply Management	344,621	133	139	9	6	39
Consolidated Computational Computer Support	27,736	0	0	0	0	0
Information Systems and Communications	30,578	78	78	20	1	1
Safety/OSH/Environmental	4,732	11	11	1	0	0
INFRASTRUCTURE						
Physical Security	11,037	29	30	14	0	27
Public Works/Staff Civil Engr	184,571	193	195	82	4	0
Fire Protection	11,976	57	55	0	0	0
Medical/Dental	16,951	0	0	0	0	0
Military Support	676,880	38	26	0	1	15
Air/Waterfront Operations	655,419	3	3	0	2	73
Other	194.599	0	0	0	0	0
TECHNICAL STAFF						
Technical Operations	[redacted]		1,243	124	12	37
Totals	2,271,593	643	1,879	260	38	217

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

UIC N68335

Table 4.2, General Support Resources for all Detachments (Activity: NAWCADLKE) (UIC: N68335)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/ XO/ TD/etc.)	0	0	0	0	0	0
Comptroller	0	0	0	0	0	0
Admin	266	3	3	0	0	0
Human Resources	0	0	0	0	0	0
OPERATIONS SUPPORT						
Supply Management	0	0	0	0	0	0
Consolidated Computational Computer Support	0	0	0	0	0	0
Information Systems and Communications	0	0	0	0	0	0
Safety/OSH/Environmental	0	0	0	0	0	0
INFRASTRUCTURE						
Physical Security	0	0	0	0	0	0
Public Works/Staff Civil Engr	0	0	0	0	0	0
Fire Protection	0	0	0	0	0	0
Medical/Dental	0	0	0	0	0	0
Military Support	0	0	0	0	0	0
Air/Waterfront Operations	0	0	0	0	0	0
Other	0	0	0	0	0	0
TECHNICAL STAFF						
Technical Operations	[redacted]		107	(R) 0	0	0
Totals	266	3	110	(R) 0	0	0

Name	Location	UIC	Civilian	(R) Military
NAWCAD DET FTS ASIR	Norfolk	N68335	14	0
NAWCAD DET FTS SURFLANT	Norfolk	N68335	2	0
NAWCAD DET FTS	Mayport	N68335	2	0
NAWCAD DET FTS	Charleston	N68335	2	0
NAWCAD DET FTS	Pascagoula	N68335	1	0
NAWCAD DET FTS	San Diego	N68335	9	0
NAWCAD DET FTS SURFPAC	San Diego	N68335	1	0
NAWCAD DET FTS	Oakland	N68335	1	0
NAWCAD DET FTS	Long Beach	N68335	2	0
NAWCAD DET FTS	Pearl Harbor	N68335	2	0
NAWCAD DET FTSAIRLANTCAFSU	Norfolk	N68335	2	0
NAWCAD DET FTS	Norfolk	N68335	9	0
NAWCAD DET FTS	Portsmouth	N68335	5	0
NAWCAD DET FTS	Newport News	N68335	6	0
NAWCAD DET FTS	Philadelphia	N68335	2	0
NAWCAD DET FTS	Mayport	N68335	3	0
NAWCAD DET FTSAIRPAC	San Diego	N68335	2	0

NAWCHQ Change
NAWC-21D VBC
a/1a/94

Table 4.2, General Support Resources for all Detachments (Activity: NAWCADLKE) (UIC: N68335)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/ XO/ TD/etc.)	0	0	0	0	0	0
Comptroller	0	0	0	0	0	0
Admin	266	3	3	0	0	0
Human Resources	0	0	0	0	0	0
OPERATIONS SUPPORT						
Supply Management	0	0	0	0	0	0
Consolidated Computational Computer Support	0	0	0	0	0	0
Information Systems and Communications	0	0	0	0	0	0
Safety/OSH/Environmental	0	0	0	0	0	0
INFRASTRUCTURE						
Physical Security	0	0	0	0	0	0
Public Works/Staff Civil Engr	0	0	0	0	0	0
Fire Protection	0	0	0	0	0	0
Medical/Dental	0	0	0	0	0	0
Military Support	0	0	0	0	0	0
Air/Waterfront Operations	0	0	0	0	0	0
Other	0	0	0	0	0	0
TECHNICAL STAFF						
Technical Operations			93	0	0	0
Totals	266	3	96	0	0	0

Name	Location	UIC	Civilian	Military
NAWCAD DET FTS	ASIR Norfolk	N68335	14	0
NAWCAD DET FTS	SURFLANT Norfolk	N68335	2	0
NAWCAD DET FTS	Mayport	N68335	2	0
NAWCAD DET FTS	Charleston	N68335	2	0
NAWCAD DET FTS	Pascagoula	N68335	1	0
NAWCAD DET FTS	San Diego	N68335	9	0
NAWCAD DET FTS	SURFPAC San Diego	N68335	1	0
NAWCAD DET FTS	Oakland	N68335	1	0
NAWCAD DET FTS	Long Beach	N68335	2	0
NAWCAD DET FTS	Pearl Harbor	N68335	2	0
NAWCAD DET FTS	AIRLANTCAFSU Norfolk	N68335	2	0
NAWCAD DET FTS	Norfolk	N68335	9	0
NAWCAD DET FTS	Portsmouth	N68335	5	0
NAWCAD DET FTS	Newport News	N68335	6	0
NAWCAD DET FTS	Philadelphia	N68335	2	0
NAWCAD DET FTS	Mayport	N68335	3	0
NAWCAD DET FTS	AIRPAC San Diego	N68335	2	0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

UIC N68335

NAWCAD DET FTS	Alameda	N68335	3	0
NAWCAD DET FTS	Puget Sound	N68355	4	0
NAWCAD DET FTS	Yokosuka	N68335	4	0
NAWCAD DET FTSEASU	Cherry Point	N68335	3	0
NAWCAD DET FTS	El Toro	N68335	1	0
NAWCAD DET FTS	29 Palms	N68335	2	0
NAWCAD DET GSE	FT. Worth, TX	N68335	1	0
NAWCAD DET GSE	St. Louis, MO	N68335	7	0
NAWCAD DET GSE	Owego, NY	N68335	1	0
NAWCAD DET FTS	Futenma, JA	N68335	2	0 (R)
NAWCAD DET FTS	Iwakune, JA	N68335	1	0 (R)
NAWCAD DET GSE	Melville,NY	N68335	2	0 (R)

NAWC HQ Change
NAWC-21D VBC
9/19/94

NAWCAD DET FTS Alameda	N68335	3	0
NAWCAD DET FTS Puget Sound	N68355	4	0
NAWCAD DET FTS Yokosuka	N68335	4	0
NAWCAD DET FTS EASU Cherry Point	N68335	3	0
NAWCAD DET FTS El Toro	N68335	1	0
NAWCAD DET FTS 29 Palms	N68335	2	0
NAWCAD DET GSE FT. Worth, TX	N68335	1	0
NAWCAD DET GSE St. Louis, MO	N68335	7	0
NAWCAD DET GSE Owego, NY	N68335	1	0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 4.3, Previous BRAC Impact to General Support Resources for (Activity: NAWCADLKE) (UIC: N68335)

DOES NOT APPLY TO NAWCADLKE

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/ TD/etc.)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg UIC N68335

5. **Technical Staff Qualifications.**

a. Use Table 5.1 (below) to provide data on the civilian personnel allocated to Technical Operations having the educational and experience levels indicated in the table for your activity.. Report data as of 31 March 1994. Similarly, use Table 5.2 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.2). Provide a list of the detachments whose data is included in Table 5.2.

Table 5.1, Technical Staff Education Level for **(Activity: NAWCADLKE) (UIC: N68335)**

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	7(R)	2(R)	3(R)	4(R)	16(R)
High School*	5(R)	196(R)	130(R)	98(R)	134(R)	563(R)
B.A./B.S	3	258(R)	63(R)	31	84(R)	439(R)
M.A./M.S	0	111(R)	32(R)	15(R)	46	204(R)
Ph.D./ M.D. **	0	3	2	1	1	7
Total	8(R)	575(R)	229(R)	148(R)	269(R)	1229(R)

(R)

* High School includes college less than Bachelor's Degree.
** PhD/MD includes professional degrees (example J.D.)

NAWCHQ Change
NAWC-21D VBC
9/19/94

5. **Technical Staff Qualifications.**

a. Use Table 5.1 (below) to provide data on the civilian personnel allocated to Technical Operations having the educational and experience levels indicated in the table for your activity. Report data as of 31 March 1994. Similarly, use Table 5.2 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.2). Provide a list of the detachments whose data is included in Table 5.2.

Table 5.1, Technical Staff Education Level for **(Activity: NAWCADLKE) (UIC: N68335)**

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	1	1	1	2	5
High School*	0	102	78	75	116	371
B.A./B.S	3	281	59	31	87	461
M.A./M.S	0	125	25	16	46	212
Ph.D./ M.D. **	0	3	2	1	1	7
Total	3	512	165	124	252	1,056

* High School includes college less than Bachelor's Degree.
** PhD/MD includes professional degrees (example J.D.)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised PG

UIC N68335

5.2, Technical Staff Education Level for all Detachments
(Parent Activity: NAWCADLKE) (UIC:N68335)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	0	0	1	1	2
High School	0	18	17	20	40	95
B.A./B.S	0	5	1	0	2	8
M.A./M.S	0	0	0	0	1	1
Ph.D./* M.D.	0	1	0	0	0	1
Total	0	24	18	21	44	107

* Includes professional degrees (ex. J.D.)

b. Use Table 5.3 (below) to provide data on the number of civilian personnel allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

Table 5.3, Technical Staff Academic Fields for (Activity: NAWCADLKE) (UIC: N68335)

Academic field	Number
Physics	2
Chemistry	0
Biology	0
Mathematics/Statistics/Operations Research	5
Engineering	134(R)
Medical	0
Dental	0
Computer Science	0(R)
Social Science	1
Other Science	1
Non-Science	68(R)
Total	211(R)

(R)

NAWCHQ change
VBC NAWC-21D
9/15/94

5.2, Technical Staff Education Level for all Detachments (Parent Activity: NAWCADLKE) (UIC:N68335)

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School	0	0	0	1	1	2
High School	0	18	17	20	40	95
B.A./B.S	0	5	1	0	2	8
M.A./M.S	0	0	0	0	1	1
Ph.D./* M.D.	0	1	0	0	0	1
Total	0	24	18	21	44	107

* Includes professional degrees (ex. J.D.)

b. Use Table 5.3 (below) to provide data on the number of civilian personnel allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

Table 5.3, Technical Staff Academic Fields for (Activity: NAWCADLKE) (UIC: N68335)

Academic field	Number
Physics	2
Chemistry	0
Biology	0
Mathematics/Statistics/ Operations Research	5
Engineering	140
Medical	0
Dental	0
Computer Science	4
Social Science	1
Other Science	1
Non-Science	66
Total	219

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 5.4, Technical Staff Academic Fields for all Detachments (Parent Activity:NAWCADLKE) (UIC:N68335)

Academic field	Number
Physics	
Chemistry	
Biology	
Mathematics/Statistics/ Operations Research	
Engineering	1
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	1
Total	2

c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel?

The activity is ideally situated to attract personnel who reside within commuting distance and who graduate from one of the numerous excellent colleges and universities in the Philadelphia - New York megalopolis area. Employees can then pursue graduate degrees after-hours at those and other nearby universities.

d. List all articles written by the in-house technical staff that were published or accepted for publication in refereed journals since 1 January 1990.

**1994: Artificial Neural Networks Engineering Conference, "A Comparison Between Fuzzy c-Means and Fuzzy Mim-Max Clustering for Aircraft Image Segmentation,"
by Susan McGrath.**

1994: IEEE Electromagnetic Launch Symposium, "Electromagnetic Aircraft Launch System -- EMALS," by Michael R. Doyle.

1993: Proceedings of NASA 2003 Tech Conference, "H46 Blade Using Artificial Neural Networks," by Marco Tedeschi.

1993: Proceedings of the 1993 ASME Winter Annual Meeting, DSC-Vol 48, "Fuzzy-Neural Control of an Aircraft Tracking Camera Platform," by Dennis McGrath.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1993: Proceedings of the 27th Annual DoD Cost Analysis Symposium, Obtaining Feedback on the Life Cycle Cost Analysis of the Standard Engine System,
by John Melin.

1993: Proceedings of Technology 2003, the Fourth Annual Technology Transfer Conference, "Intelligent Control Systems," by Dennis McGrath.

1993: Hazardous Materials Control Resources Institute's Abstract Guide to Manuscripts, Superfund XIV, "A Federal Success Story," NAES Lakehurst Environmental Group.

1993: Conference for Artificial Intelligence Applications for Military Logisitics, "Logistics Support Analysis Advisor," by Mark Husni.

1993: Technical Manuals, "Maintenance Requirements Cards," joint authorship between in-service engineers and logistics personnel.

1992: Proceedings of the National Security Industrial Association, "TPS Documentation for CASS in Hypertext Form," by Richard Epstein.

1992: MECH Magazine, the Naval Aviation Maintenance Safety Review, "White Support Equipment," by Gabrielle Gerliczy.

1992: Proceedings for AUTOTESTCON92, "CASS TPS Documentation -- A High Technology Tool," by Richard Epstein.

1992: Proceedings for AUTOTESTCON92," Automated Integrated Diagnostics for Aircraft Mechanical Systems," by Robert Rossi.

1991: Circuit, Journal of the Institute of Interconnection Technology, Vol 17, No. 1, "Printed Wiring Board Inner Layer Contamination Study," by Albert S. Chan.

1991: Proceedings of the Internal Society for Optical Engineering, "Repair and Maintenance of Fiber Optic Data Links on Navy Aircraft," by Eric Fryland.

1991: Naval Aviation Maintenance Safety Magazine, "High Pressure Can Be Hazardous to Your Health," by Kathy Donnelly.

1990: 5th IEEE International Symposium on Intelligent Control, "Conceptual Learning: Hierarchical System," by Larry Venetsky.

1990: IEEE Computer Society Built-In Self Test Workshop, "System-level Simulation for Supportability Analyses," by Fred Liguori.

1990: 6th Annual Tri-Service RAMCAD Symposium, "Readiness Assessment -- Where "Ilities" and "Abilities Meet," by Fred Liguori.

1990: Society of Logistics Engineers, 25th Annual Symposium, "Computer Modeling for System Level Supportability Analyses," by Fred Liguori.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1990: Proceedings of DoD Fiber Optics Conference, "Fiber Optic Resource for Test Equipment," by Eric Fryland.

1990: Ground Water Monitoring Review, "Remediation of Contaminated Ground Water Using Biological Techniques," by Paul E. Flathman, Douglas E. Jerger, and Lucy S. Bottomley.

1990: Proceedings of IEEE Systems Readiness Technology Conference, AUTOTESTCON 90, "Decision Support Tools Help Transition CASS into the Fleet," by Chuck Trypak, Mike Malesich, Jim McCabe.

e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 January 1990.

1994: Chapter 23, "Bioremediation of Ethylene Glycol-Contaminated Groundwater at the Naval Air Warfare Center Aircraft Division, Lakehurst, NJ," by Paul E. Flathman and Lucy S. Bottomley published in Bioremediation Field Experiences, Paul Flathman, Douglas Jerger, and Jurgen Exner, Editors.

1993: "Beta Titanium in the United States Surface Navy Improved Water Brake," by Stephen L. Opet, Jr., and David F. Peters, published in "Titanium '92, Science and Technology," F. H. Froes and I. L. Caplan, Editors; TMS, Warrendale, PA, Publisher.

1993: "High Strength Structural Applications for Large Diameter Forgings of Beta-C (Ti-3A1-8V06Cr-4Mo-4Zr)," Paper Title; authors P.A. Russo and J. R. Wood (RMI Titanium Company), R. B. Bhagat (Applied Research Lab, Penn State University, State College, PA), and Stephen L. Opet, Jr., (Naval Air Warfare Center Aircraft Division, Lakehurst, NJ, published in "Beta Titanium Alloys in the 1990's," D. Eylon, D. Coss, Editors, TMS Warrendale, PA, Publisher.

"Remediation of Contaminated Ground Water using Biological Techniques" by Paul E. Flathman, Douglas E. Jerger, and Lucy S. Bottomley. published in Winter '89 Issue of Ground Water Monitoring Review.

The Threat at Home, Confronting the Toxic Legacy of the US Military, Chapter 7, Lakehurst, New Jersey: "The Dark Years."

Finalist, New Jersey Environmental Exposition, 1993 Leaders in Environmental Excellence.

Hazardous Materials Control Resources Institute's Abstract Guide to Manuscripts, Superfund XIV, 30 November - 2 December 1993, A Federal Succcess Story.

f. Identify any Nobel laureates employed at this activity.

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

1991 - 26th Annual Silver Gull Award, Monmouth-Ocean County Development Council.

1991 - Officier de l'Ordre National due Merite, French Medal, Highest Civilian Award Issued by the Government of France to Chief Engineer, George DiBiase.

h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

1990 - Defense Standardization Program Outstanding Performance Award.

1990 - Award for CBR Manuals and Video for Desert Storm.

1992 - CNO Award, DoD Environmental Showcase Installation for Environmental Protection Agency Headquarters Tours.

1992 - DoD Gold Nugget Award for Acqusition Streamlining and Standardization Information System (ASSIST) for Excellence in the Automation of Information Management Systems.

1992 - US EPA Stratospheric Ozone Protection Award for Halon 1211 Recycling.

1993 - 1993 Quality Improvement Prototype Award.

1994 - DoD Standardization Program Award for Excellence in the Navy for Acquisition Streamlining and Standardization Information System Program (ASSIST).

i. List all patents awarded to the in-house technical staff members of this activity since 1 January 1990.

None

j. List all patents applied for by the in-house technical staff members of this activity since 1 January 1990.

None.

k. Identify any in-house staff that are members of the National Academy of Engineering.

None.

l. Identify any in-house staff that are members of the National Academy of Sciences.

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 January 1990?

One signed.
Smith Industies

Six in progress.
Southwest Research Institute
TRW
Giordano Automation Corp.
Grumman
Northrop
PCA Inc.

n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 January 1990?

$0.

o. List and describe any major end item prototypes, either product or process technology, developed in-house by the activity that are currently in production and/or are currently in use by the U.S. Armed Forces or by industry. Cite a published reference that documents the work.

AIRCRAFT LAUNCH AND RECOVERY (ALRE)

PROTOTYPE	NAVAIR MANUAL
VSTOLS Optical Landing Aids	AD-400-AA-OMP-125
CAI Mod 2	51-0R723
C7/C11-1 Catapult	51-15AAA-1
C13/C13-1 Catapult	51-15ABB-1
C13/C13-2 Catapult	51-15ABD-1
Catapult Support Systems	51-20-2
MK7 MOD 0/MOD 1 Jet Blast Deflector	51-70-3
MK6 MOD 4 Jet Blast Deflector	51-70-4
Flush Deck Nose Gear Launch MK 2	51-25-19
MK7 MOD 2 Arresting Gear	51-5BBA-1.1
MK7 MOD 3 Arresting Gear	51-5BCA-1.1
E28 Emergency Runway Arresting Gear	51-5-31
Expeditionary Air Field Mechanical Workshop Van	51-5-35
Light Weight Earth Anchors	51-5A-3
M21 Arresting Gear	51-5EAA-2
AM-2 Matting	51-60A-1
Stablized Glide Slope Indicator MOD 0	51-5B-1
Wave-Off MK 1 MOD 0	51-5B-3
Stabilized Glide Slope Indicator MK3 MOD 1	51-5B-5
Wave Off/Cut MK2 MOD 1	51-5B-6
Wave Off MK 1 MOD 0 MK III Shp	51-5B-7
Expeditionary Airfield Lighting/Marking	51-40ABA-7
Fresnel Lens Optical Landing System MK 6 MOD 3 VOL 1	51-40ABA-10
Runway Centerline Sequence Control	51-40ADA-1
Flight Deck Lighting for Visual Landing Aids	51-50AAA-1
Shorebased Airfield Marking and Lighting	51-50AAA-2

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Visual Landing Aids on Air Capable Ships	51-50ABA-1
Visual Landing Aids on CV Ships	51-50ABA-2
Visual Landing Aids on LHA/LHD Ships	51-50ABA-3
Visual Landing Aids on LPH Ships	51-50ABA-4
Centerline Light Sequence Flasher System	51-50ABA-5
Integrated Launch and Recovery Television Surveillance System	51-60-8-1
Landing Safety Officer Heads Up Display Console	51-60-9
Horizontal Approach Path Indicator, Modified	AD-400A-OMP-125
Close In Approach Indicator	
Hover Position Indicator	
Portable Lighting Set Heliport	51-40ACB-2
E-5 MOD 1, 2, and 3 Field Emergency Arresting Gear	51-5-28
Lighting and Marking Expeditionary Airfield	51-40ABA-18
Expeditionary Airfield Barebase 8000 Foot	51-40ABA-18
Lighting System Wave-Off MK 1 MOD 0	51-5B-3
Lighting System Wave-Off/Cut MK 2 MOD 1	51-5B-6

SUPPORT EQUIPMENT (SE)

PROTOTYPE	REFERENCE
32,000 LB Crash Dolly and Conclave and Flat Adapters (1359AS251-1 and 1359AS302-1)	1359AS201-1
Forklift Boom Adapter	1359AS400-1
Tailhook Dolly	1359AS500-1
Salvage Platform	3056AS100-1
Universal Salvage Harness	1359AS600-1
Fabric Aircraft Hoisting Sling	1359AS700-1
Universal Aircraft Sling - Designed, but not Produced/Procured (Drawings Available)	1359AS100-1
Webbing Sling	1359AS112-2
A/S 32A-32 Spotting Dolly	1366AS/W-1
A/S 32A-32 (A/F) Spotting Dolly	NIAN 01-270-3615
A/S 32A-31A Tow Tractor	3337AS100-1
MXU-786/U Static Wand	1610AS100-1
FLEDS	
A/C Chock	1509AS300-3
A/C Chock	1509AS300-1
Forward Ground Handling Wheel	3239AS500-1
Polyutethane Aircraft/Support Equipment Wheel Chocks	
Shipboard Version	1509AS100-1
Shorebased Version	1509AS300-1
Universal Aircraft Towbar ALBAR (Adjustable Length Towbar)	1479AS100-1
Aircraft Tiedown TD-1B (Part Numbers 1540AS100-1 and 1540AS100-2)	
Aircraft Run-Up Restraint Designated MXU-657/W (Part Number 916AS106)	
Gas Turbine Engine Test Systems	
A/M 37T-28(V)3 - T64 ETS	1141AS200-1 & 650AS100-1
A/E 37-24(V)2 - T64 ETS	981AS100-2
A/E 37-24(V)3 - T400 ETS	981AS100-3

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

A/E 37-24(V)4 - T58 ETS	981AS100-4
A/E 37-24(V)5 - T700 ETS	981AS100-5
A/E 37T-14-TURBOFIT/JET ETS	604AS 101-3,-4,-5,-6, -22
A/F 32T -6/6A TURBOFIT/JET ETS	919AS 100-1, 500-1
A/F 32T-10 TURBOFIT/JET ETS	1226AS 100-1
A/F 32T-11 TURBOFIT/JET ETS	1224AS 100-1
A/M 37T-13 TURBOFIT/JET ETS	320AS 100-1
A/M 37T-23 TURBOFIT/JET ETS	1338AS 100-1
A/W 37T-1 TURBOFIT/JET ETS	618AS 100-1 through -6
A/E 37T-26 APU ETS	1147AS 100-1
Weapons Loader - AS 32K-1D	1378AS100-1
Bomb Assembly Stand - A/F 32K-10	551AS 200-1
Missile Transporting Adapter - ADU 514/5	1763AS 600-1
AMRAAM Nitrogen Transporting Adapter - ADU-729/E	1659AS 200-1
AMRAAM Wing/Fin - ADU-600E	1245AS 600-1
GBU-24 Loading Adapter - ADU-764/E	3222AS 600-1
Adjustable Weapons Adapter - ADU-511A/E	133AS401-1
Tow Target Adapter - ADU 591/E	55EO1571-1
Tow Target Adapter - ADU 592/E	55EO1573-1
Penquin Collar - ADU 732/E	3173AS115-1
Nitrogen Bottle Transporting Adapter	271AS100-15
Harpoon Missile Adapter - ADU-575	1517AS107-1
Liquid Oxygen Servicing Trailer	22445
Nitrogen Servicing Unit - NAN-4	1317AS100-1
Nitrogen Servicing Hand Truck - A/M 34M-2	166AS100-1
1000 Gallon Cryogenic Service System	1598AS100-1, -2
2000 Gallon Cryogenic Service System	1598AS100-1, -2
Helicopter Transportable LOX Storage Tank	1259AS101-2
Helicopter Transportable LB Storage Tank	12592S101-2
Expeditionary Oxygen Nitrogen System	1552AS100-1
Oxygen System Componets Test Stand	1316AS100-1
Aircraft Oxygen System Gas Purging Set	1311AS100-1
HEED Servicing Cylinder	1695AS100-1
HEED Servicing Cylinder	3057AS100-1
H-60 Fuel Integrity Test Set	
P-3 Air Inlet Installation Fixture	
P-3 Rudder Batton	
S-3 Engine Screen	
H-2 IAGB Isolator Mount Bushing I/R Set	
Modular Gaseous Oxygen Servicing Trailer	1828AS100-1

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

FACILITIES AND EQUIPMENT

6. **Special Facilities/Equipment Resources.** Include a copy of the form provided at Tab B of this data call for each facility and "major" piece of equipment located at this activity. Include information on separate detachments. The following definitions will apply:

Facilities - Will include such things as rocket firing bays, towing tanks, anechoic chambers, hypervelocity gun ranges, hyperbaric chambers, wind tunnels, simulation/emulation laboratories, etc. Include buildings that are integral to the facility/equipment. Do not include major outdoor ranges or land.

Also, describe modeling and simulation capabilities, hardware in-the-loop facilities and analysis or wargaming capabilities.

Equipment - Resources used to support the operation of the site with a replacement value of $500,000 or greater. Do not include land or buildings in this category. In reporting equipment, provide information to indicate the degree of portability of the equipment. Class 3 Personal Property items ("plant equipment" or "equipment in place") by definition are highly portable and can be moved easily. Some Class 2 Installed Equipment, such as Main-frame computers, test stands and small hyperbaric chambers, require more extensive utilities support and assembly of components, but can be relocated without damage to the facility or equipment, and therefore are considered "moveable" assets. Other Class 2 items are so large and/or integral to the facility that houses them that major demolition and construction would be required to relocate them, and therefore are considered "fixed" assets. Where appropriate, pieces of equipment can be aggregated for the purposes of completing Tab B.

7. **General Facilities.**

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe. **None**

b. What MILCON projects are currently programmed to be completed by the end of FY1995? For each project provide:

(1) A description of the proposed facility with title and project number. Be sure to include the trailing alpha designator for BRACs-88, 91 and 93 realignment projects, i.e., P-xxxR, P-xxxS, P-xxxT .

(a) 1 P-232S, "Modifications to Administration Facility (NAESU)" - Provides adequate administrative space for Naval Aviation Engineering Service Unit (NAESU) personnel being relocated from Naval Base, Philadelphia, Pennsylvania, as a result of BRAC 91.

(b) 2 - P-233, "Lighting System Retrofits at Various Buildings, Energy Conservation Investment Program (ECIP).

(2) The functional support area(s) that the new facility will support. Refer to Appendix A.

(a) 1 - This project supports the functional support areas of 1.2 Platform Aircraft.

(b) 2 - 10.9 Activity Mission Function Support

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(3) Identify installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call. **None.**

(4) The additional square footage that this project will provide to the functional support area(s). **None.**

(5) The current working estimate (CWE) & planned beneficial occupancy date (BOD) of the project.

(a) 1 - CWE is $1,770K with a BOD of April 1995.

(b) 2 - CWE is $300K with a BOD of June 1995.

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide:

(1) A description of the proposed facility with title and project number.

(a) 1 - P-0211, "Addition to Potable Water System." Rehabilitate wells, dig well, build treatment facility, add storage tank, replace deteriorated piping, and complete loops to preclude disruption of service for failure to meet New Jersey Safe Drinking Water Act (NJSDWA) water quality Standards.

(b) 2 - P0234, "Child Development Center." Provides a modern child care support facility that meets the latest Navy standards for dependent children (6 weeks to 12 years of age) of on-board military and DoD civilian personnel.

(2) The functional support area(s) the new facility will support.

(a) 1 - 10.9 Activity Mission and Function Support.

(b) 2 - 10.9 Activity Mission and Function Support.

(3) The identified installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call. **None**

(4) The additional square footage this project will provide to the functional support area(s).

(a) 1 - 1,100 SF additional to 10.9 Activity Mission and Function Support area.

(b) 2 - None. This project will replace the existing leased modular unit (that is renewable through FY97) with a permanent 10,335 SF facility.

(5) CWE & planned BOD.

(a) 1 - CWE is $2,950K with a planned BOD January 1996.

(b) 2 - CWE is $1,300K with a planned BOD of FY 97.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

d. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe. Assume all previous BRAC closures have been executed.

McGuire Air Force Base is the nearest military airfield at 15 straight miles or 24 miles driving distance.

e. How many certified magazines, used for the storage of explosives, does this activity own or control? 8 What is the total explosive weight storage capacity? **Storage capacity is dependent upon type and class of ordnance. Refer to TAB D, Table 1-3.**

Table 1.3: **Facility Rated Status**

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date
180 1BTX3	**1.1** **1.2/3/4**	**40,000** **PC**	**Y** **Y**	**N** **N**	
181 1BTX2	**1.2/3/4**	**PC**	**Y**	**N**	
182 1BTX1	**1.2/3/4**	**PC**	**Y**	**N**	
183 1HT4	**1.2** **1.3** **1.4**	**10** **1000** **PC**	**Y** **Y** **Y**	**N** **N** **N**	
184 1Y5A **1 Y5B**	**1.3** **1.4** **1.3** **1.4**	**6000** **PC** **6000** **PC**	**Y** **Y** **Y** **Y**	**N** **N** **N**	
549 2SX1	**1.4** **1.3**	**PC** **500**	**Y** **Y**	**N** **N**	
549 2SX2	**1.4** **1.3**	**PC** **500**	**Y** **Y**	**N** **N**	
HANGAR 1	**Storage of inert material for SWEF**	***See Remarks**			

***REMARKS: Hangar 1 is currently being used as the storage facility for inert ordnance (missiles, general purpose bombs, gun pods, etc.). This aircraft ordnance is used for test and evaluation aboard U.S. Naval vessels, i.e., ship installation assurance tests.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

LOCATION

8. **Geographic Location.**

a. Is there an imperative in facility, function or synergy that requires the installation/base/facility to be in its present location? If yes, describe.

The activity is located on 7430 acres in Central New Jersey in the Pinelands National Reserve and is protected from commercial encroachment by the Pinelines Protection Act of 1979. Virtually all land uses except agriculture, limited recreation, and forestry programs are prohibited in the preservation area.

Proximity to McGuire Air Force Base, Ft. Dix and the Atlantic Ocean provide extremely favorable Air Installation Compatible Use Zones (AICUZ).

It is noteworthy to address the potential for jointness among Lakehurst, Fort Dix, and McGuire Air Force Base. The Fort Dix 31,065 acre complex which includes McGuire Air Force Base is contiguous to Lakehurst's 7,430 acres. One recent example of jointness is the Air Mobility Warfare Center and Army plans to use Lakehurst grounds for training exercises.

Close proximity to the New York and Philadelphia Metropolitan area and numerous University and Research Facilities.

b. What is the importance of the present location relative to customers supported?

Close proximity to Washington area permits close liaison with the customers.

The location of Lakehurst in the "northeast corridor" permits easy access on a daily basis to NAVAIR Headquarters, NAWCAD Headquarters, NAWCAD Warminster, NAWCAD Trenton, Navy Aviation Supply Office, Navy International Logistics Control Office (NAVILCO), Ship Parts Control Center, and a vast array of current and potential suppliers. Additionally, Lakehurst is within easy reach of the transportation hubs in New York, Philadelphia, and Newark to permit efficient national and international travel in support of the sponsors' programs.

There is a major advantage in maintaining the integrity of the API function. The engineers and technicians who are responsible for equipment design and for equipment maintenance are co-located with the installed, in-ground catapults and arresting gear. This provides a much valued synergy among the design, development, and support personnel. In addition, it provides the customer - NAVAIR sponsors and the Fleet - with "one-stop shopping" for API equipment -- from new design requirements (e.g., improve or reduce costs) to in-service changes.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

FEATURES AND CAPABILITIES

9. **Computational Facilities.**

a. Describe the general and special computational capabilities at this site. Include super computing, parallel computing, distributed computing and networking. Include high-speed data transfer, fiber optic links, microwave links, network interconnectivity and video teleconferencing capabilities. Do not discuss desktops and laptops except as they relate to networking.

NAWCAD Lakehurst houses multiple computing platforms which serve a wide variety of business and technical users.

The IBM 3081 is a large-scale multi-user, tasking, and programming dyadic mainframe processor complex. A durable machine consisting of two distinct, compatible processors, it easily handles large workloads. Each processor serves as a backup if the other is not operational.

The IBM 3081 has 48 megabytes of processor memory, handles 15 million instructions per second, and has 16 input/output channels. The fastest channel can transfer 3 million bytes per second. It can run a variety of operating systems including: MVX/SP, MVS/XA VM/SP, VM/SP/HPO, VM/XA/SP and DOS/VSE.

Two 8600, one 8700, and one 7610 Digital Equipment Corporation VAX machines handle most business data base applications and scientific needs and are constantly used together for interactive and batch applications.

A Tandem CLX processor, dedicated to Contracts Department's APADE application, automates most contract award actions.

Additional equipment includes magnetic tape drives for both reels and cartridges, disk drives containing more than 50 gigabytes of disk storage space, and communications equipment enabling users to contact other networks and computing facilities.

NAWCAD Lakehurst has a 20-seat Video Teleconferencing Center (VTC), TEMPEST secure and with a secure telephone (STU-III). A single control panel operates six cameras, three 35" monitors, two VCRs, a 35mm projector and a fax machine. Communications transmission is conducted over a T1 line to 20 NAVAIR sites and over 150 DoD sites.

Network Interconnectivity. Wide area communications:

Two 56KBS INTERNET (DDN) connections provide terminal access, file transfer and simple E-MAIL throughout MILNET and INTERNET.

One 56KBS NAVWAN multi-protocol connection provides Navy-wide terminal access, file transfer, file sharing and advanced E-MAIL (file attachments and directory sychronization).

One 56KBS ICPNET connection provides SNA access to Aviation Supply Office, Philadelphia AUTOSERD database and communications access with other networks (such as DLANET) for Defense Logistics Services Center.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

CAD/CAM: Computational workstations used in engineering design, structural analysis, finite element analysis, manufacturing and facilities design of mechanical and electrical components and equipment.

Ethernet LAN System with MacIntosh server connecting seven MacIntosh's and two IBM compatible PCs.

The Data Handling Center (DHC) houses off-line signal processing and reproduction equipment, as well as the project data archieve equipment. The off-line processing equipment includes instrumentation tape recorders, demodulation equipment for 64 channels of ground based data, telemetry demodulation equipment to reproduce vehicular data, display devices, signal plotters, analog to digital conversion systems, and three signal processors. Archive support equipment includes 1700 analog and 800 digital data tapes, tape library logs, tape maintenance equipment. All this equipment is used in support of evaluation projects of API.

Special Computing. Automated Test Equipment (ATE): electronic support equipment which automatically or semi-automatically generates independent programmed stimuli measuring selected parameters of electronic, mechanical or electromechanical test items. It compares for acceptance or rejection the measured values following predetermined limits. ATE may also include independently configured automatic or semi-automatic devices for detecting, measuring and evaluating electrical, electronic or electromechanical characteristics of systems or equipment.

LAKEHURST AREA NETWORK

A 100 Megabit per second Fiber Distributed Data Interface (FDDI) Wide Area Network (WAN) connects major work centers using multi and single-mode fiber and AGS routers. It primarily links high data traffic areas and remote areas of the base beyond the range of conventional ethernet networks. The FDDI WAN has 5 major nodes: Data Center Operations, Engineering, Support Services, Product Verification and Automated Test Equipment (ATE).

The 100 megabit per second fiber optic backbone links the station's major buildings, departments, tenants, 34 network servers and 3 VAX clusters. Ethernet networks use Unshielded Twister Pair (UTP) media installed to standard wall jacks and are linked by 10 Base T connectors which interface to the FDDI WAN on underground multi-mode fiber optic cable. Tandem and IBM systems also access the WAN via gateways.

The LAN & WAN systems link 1700 civilian & military personnel.

All fiber optic cable is encased in conduit and can accommodate network expansion.

Point-to-point communications lines with other government and non-government sites are being consolidated into fewer, high-speed data links via WAN. The WAN provides authorized users with external communications capability including dial-in/out and access to internet via Defense Data Network lines.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

The Carrier Analysis Room contains a computer network consisting of a digital microvax II and several IBM and Mac PC workstations. Included are peripheral devices such as plotters, printers, scanners, digitizers, a color image printer, and a CD disk drive.

All computer and computer users will be connected to LAN by end of FY94 for a total 1700 connections. Currently have 70% connected. LAN expansion capacity is constrained only by workspaces not by network fiber optics, which can handle an infinite number.

10. **Mobilization Responsibility and Capability.**

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility.

Lakehurst mobilization responsibilities consist of:

Reserve activation including;

Base Support to the activation of NMCB-21.

Base Support to PERSUPPDET Lakehurst for activation of multiple Navy reserve units now relocating to Fort Dix.

Acceleration/Expansion of industrial capacity, including sole source manufacturing facilities for selected Aviation Launch and Recovery Equipment (ALRE), i.e., cross deck pendant and nylon barriers.

Base Support to Tenant Activities.

As per OPNAVINST 53061.1D (1988) Navy Capabilities Mobilization Plan, Annex B.

(1) What functional support area(s) does this responsibility support? Refer to Appendix A for the list of functional support areas? **1.2**

(2) What portion of the work years and dollars, as reported in each applicable functional support area reported in Tab A, are spent solely on maintaining your activity's readiness to execute the mobilization responsibilities? **None**

(3) How many additional personnel (military & civilian) would be assigned to your activity as part of the mobilization responsibility? Include separately any contractor assets that would be added.

Military = 39
Civilian = 81
No Additional Contractor Assets

b. Does your activity have adequate facilities to support your mobilization responsibilities? (yes/no) **Yes**

(1) If yes, is any space assigned for the sole purpose of maintaining mobilization readiness? (yes/no) If yes, list the square footage assigned. **No**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work? **None Required.**

Existing base infrastructure, including airfield/ramp/hangar facilities, bachelor quarters, Galley, and office spaces are all adequate to support a rapid expansion of base population over current base loading without major capital investment or construction. Additional industrial capability can be rapidly achieved within existing capital resources simply by workforce expansion.

(3) Are there any restrictions that would prevent work (noted in paragraph 10.b.(2) above) from taking place (i.e., AICUZ, environmental constraints, HERO, etc.)? If yes, describe. **No**

c. Describe any production facilities that would be activated in case of a future contingency.

No production facilities would be activated. Production of core facilities would be accelerated for manufacture of arresting gear cross deck pendants, and barricades to support surge requirements.

d. Is your activity used as a Reserve Unit mobilization and/or training site? **Yes, For NMCB-21 with authorized strength of 736 and current strength of 628.**

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

Range - An instrumented or non-instrumented area that utilizes air, land, and/or water space to support test and evaluation, measurements, training and data collection functions, but is not enclosed within a building.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

QUALITY OF LIFE

12. Military Housing

a. Family Housing:

(1) Do you have mandatory assignment to on-base housing? (circle) yes no

No

(2) For military family housing in your locale provide the following information:

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	10	10		
Officer	3	7	7		
Officer	1 or 2	8	8		
Enlisted	4+	8	8		
Enlisted	3	90	90		
Enlisted	1 or 2	96	96		
Mobile Homes					
Mobile Home lots		45	45		

(3) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(4) Complete the following table for the military housing waiting list.

Pay Grade	Number of Bedrooms	Number on List[1]	Average Wait
O-6/7/8/9	1	-	-
	2	-	-
	3	-	-
	4+	-	-
O-4/5	1	-	-
	2	-	-
	3	6	12-18 months
	4+	-	-
O-1/2/3/CWO	1	-	-
	2	-	-
	3	2	12-18 months
	4+	-	-
E7-E9	1	-	-
	2	-	-
	3	-	-
	4+	-	-
E1-E6	1	-	-
	2	34	4-6 weeks
	3	6	4-6 weeks
	4+	2	6-8 weeks

1 As of 31 March 1994.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(5) What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? If so provide details.

	Top Five Factors Driving the Demand for Base Housing
1	Cost of rent plus utilities outside is too high.
2	VHA/BAQ does not cover costs outside.
3	Outside availability is scarce for rental housing.
4	Shortage of housing at other DOD installations.
5	For sale housing is scarce and expensive.

(6) What percent of your family housing units have all the amenities required by "The Facility Planning & Design Guide" (Military Handbook 1190 & Military Handbook 1035-Family Housing)? **None**

(7) Provide the utilization rate for family housing for FY 1993.

Type of Quarters	Utilization Rate
Adequate	**83.04**
Substandard	-
Inadequate	-

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason?

From 81.47 to 83.04 (see below)*

*** Maintenance and repair time has reduced due to award of a new facilities support contract to accomplish change of occupancy maintenance. Additionally, we are getting more applicants for our Mobile Home Park.**

Occupancy is below 98% because several officer housing units are vacant for major renovations. Clearing up a backlog of change of occupancy maintenance projects created by poor contractor performance in the past two years. Our Mobile Home Park is not completely filled because there is no waiting list.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

b. BEQ:

(1) Provide the utilization rate for BEQs for FY 1993.

Type of Quarters	Utilization Rate	
Adequate	**87% Permanent**	**82% Transient**
Substandard	**0**	**0**
Inadequate	**0**	**0**

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

No. Due to the amount of spaces in the BEQ and the amount of spaces required utilization is low, very little demand for BEQ spaces due to the amount of military on station.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: = 40.

AOB = (# Geographic Bachelors x average number of days in barracks) / 365

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	**24**	**60%**	**Information from questionnaire**
Spouse Employment (non-military)	**10**	**25%**	**Information from questionnaire**
Other	**6**	**15%**	**Separated**
TOTAL	**40**	**100%**	

(5) How many geographic bachelors do not live on base? **0**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993.

Type of Quarters	Utilization	
Adequate	**49% Permanent**	**82% Transient**
Substandard	**0**	**0**
Inadequate	**40%**	**0**

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

No. Due to the amount of spaces in the BOQ and the amount of spaces required utilization is low, very little demand for BOQ spaces due to the amount of military on station.

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: **= 3**

$$\textbf{AOB} = \frac{\textbf{(\# Geographic Bachelors x average number of days in barracks)}}{\textbf{365}}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	**1**	**33.3%**	**Information from questionnaire**
Spouse Employment (non-military)	**0**	**0**	**Information from questionnaire**
Other	**2**	**66.6%**	**Separated**
TOTAL	**3**	**100**	

(5) How many geographic bachelors do not live on base? **0**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

d. BOQ/BEQ Housing and Messing.

(1) Provide data on the BOQs and BEQs assigned to your current plant account. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft*	Beds	Sq Ft*	Beds	Sq Ft*
BEQ 480 72114 E1 - E4	**363**	**121**	**363**	**106**	**0**	**0**	**0**	**0**
BEQ 480 72114 E5 - E6	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
BEQ 480 72114 E7 - E9	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
BEQ 481 72111 E1 - E4	**75**	**25**	**75**	**89**	**0**	**0**	**0**	**0**
BEQ 481 72112 E5 - E6	**82**	**41**	**82**	**134**	**0**	**0**	**0**	**0**
BEQ 481 72113 E7 - E9	**26**	**26**	**26**	**268**	**0**	**0**	**0**	**0**
BOQ 33 72411 CWO1 - 02 **	**21**	**21**	**21**	**350**	**0**	**0**	**6**	**190**
BOQ 33 72411 03 - Above	**0**	**0**	**0**	**400**	**0**	**0**	**0**	**0**

*** SQUARE FOOTAGE IS TAKEN FROM THE R-21 / DD-2085 (Sq ft per bed)**
**** THE BOQ IS TO BE RENOVATED STARTING LATE 1994 RAISING IT TO NAVPERS 15606, TABLE 2-2 STANDARDS.**

(2) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code: **BOQ:C-3**
b. What makes it inadequate? **BOQ Square footage requirements.**
c. What use is being made of the facility? **Assignment for geographical bachelors**
d. What is the cost to upgrade the facility to substandard? **$1.5 M**
e. What other use could be made of the facility and at what cost? **NONE**
f. Current improvement plans and programmed funding: **Rehabilitation of quarters for $1.5M**
g. Has this facility condition resulted in C3 or C4 Designation on your baserep? **BOQ was designated as C-3 in Sept 1993.**

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft*	Beds	Sq Ft*	Beds	Sq Ft*
BEQ 480 72114 E1 - E4	**363**	**121**	**363**	**106**	**0**	**0**	**0**	**0**
BEQ 480 72114 E5 - E6	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
BEQ 480 72114 E7 - E9	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
BEQ 481 72111 E1 - E4	**75**	**25**	**75**	**89**	**0**	**0**	**0**	**0**
BEQ 481 72112 E5 - E6	**82**	**41**	**82**	**134**	**0**	**0**	**0**	**0**
BEQ 481 72113 E7 - E9	**26**	**26**	**26**	**268**	**0**	**0**	**0**	**0**
BOQ 33 72411 CWO1 - 02	**13**	**13**	**13**	**350**	**0**	**0**	**0**	**0**
BOQ 33 72411 03 - Above	**14**	**14**	**14**	**400**	**0**	**0**	**0**	**0**

***SQUARE FOOTAGE IS TAKEN FROM THE R-21/DD-2085**

(4) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in C3 or C4 designation on your baserep?

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(5) Provide data on the messing facilities assigned to your current plant account.

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	
General Mess 72210, Bldg 484	**16,840**	**256**	**4,350**					**114**

*** TOTAL DINING AREA IS 4,350.13 SQ FT AT 17 SQ FT PER PERSON**
**** COMPUTED FROM FY93 HEADCOUNT DATA.**

(6) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

a. Facility Type/Code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in C3 or C4 designation on your baserep?

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997.

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	
General Mess 72210, Bldg 484	**16,840**	**255**	**16,840**					**288***
74067, Bldg 333	**4.000**	**118**	**4,000**					**240****

(8) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

a. Facility type/code:
b. What makes it inadequate?
c. What use is being made of the facility?
d. What is the cost to upgrade the facility to substandard?
e. What other use could be made of the facility and at what cost?
f. Current improvement plans and programmed funding:
g. Has this facility condition resulted in C3 or C4 designation on your baserep?

*** Total dining area is 4,350 SF. at 175 SF. per person. In FY95 the Enlisted and Consolidated Open Messing Facilities will be combined. Estimated noon meals is 100% increase of existing total meals served now.**

**** Bldg. 333 is a Snack Shop which is a branch of the Consolidated Open Messing Facilities. Estimated number of meals based on 50% increase over existing count due to the fact that the square footage will increase in FY96.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

13. **MWR Facilities.** For on-base MWR facilities[1] available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table.

LOCATION NAWCADLKE **DISTANCE**_____

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays	8	N
	Outdoor Bays	N/A	N/A
Arts/Crafts	SF	N/A	N/A
Wood Hobby	SF	N/A	N/A
Bowling	Lanes	8	N
Enlisted Club	SF	N/A	N/A
Officer's Club All military & civilian	SF	21,191	N
Library	SF	2,665	N/A
Library	Books	9,500	N/A
Theater	Seats	446	N/A
ITT	SF	431	Y
Museum/Memorial	SF	N/A	N/A
Pool (indoor)	Lanes	N/A	N/A
Pool (outdoor)	Lanes	6	N
Beach	LF	N/A	N/A
Swimming Ponds	Each	N/A	N/A
Tennis CT	Each	4	N/A

[1] Spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	Each	3	N/A
Basketball CT (outdoor)	Each	2	N/A
Racquetball CT	Each	2	N/A
Golf Course	Holes	9	Y
Driving Range	Tee Boxes	N/A	N/A
Gymnasium	SF	26,135	N/A
Fitness Center	SF	4,000	Y
Marina	Berths	N/A	N/A
Stables	Stalls	N/A	N/A
Softball Fld	Each	4	N/A
Football Fld	Each	1	N/A
Soccer Fld	Each	N/A	N/A
Youth Center	SF	1,920	N/A
Parks	Each	2	Y
Snack Shack	SF	1,740	Y
Outdoor Rec	SF	2,291	Y
Golf Pro Shop	SF	3,929	Y
Recycling	SF	4,408	Y
Child Development	SF	10,000	N/A
Before/After School Program*	SF	7,000	Y
Rec Center	SF	2,176	Y
SATO Travel	SF	400	Y

***Off Base Site - Multi Purpose Room; Distance - 2 miles**

a. Is your library part of a regional interlibrary loan program? **Yes**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. Base Family Support Facilities and Programs.

a. Complete the following table on the availability of child care in a child care center on your base.

Age Category	Capacity (Children)	SF*			Number on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Mos	**8**				**27**	**9 mths/yr**
6-12 Mos	**9**				**1**	**9 mths/yr**
12-24 Mos	**20****				**6**	**6-12 mths**
24-36 Mos	**24**				**2**	**3 mths**
3-5 Yrs	**60****				**9**	**6 mths**

***Leased temporary facility. Adequate for five years until MILCON facility planned for 96/97.**
****Thirty spaces under capacity due to inability to fill vacant GS-04 Caregiver positions because of hiring freeze.**

b. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:
What makes it inadequate?
What use is being made of the facility?
What is the cost to upgrade the facility to substandard?
What other use could be made of the facility and at what cost?
Current improvement plans and programmed funding:
Has this facility condition resulted in C3 or C4 designation on your BASEREP?

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list.

Waiting List - Hilltop Nursery School, 908/657-6676, Capacity - 172. Age accepted 6 weeks - 5 years.

d. How many "certified home care providers" are registered at your base?

One certified.

e. Are there other military child care facilities within 30 minutes of the base? State owner and capacity (i.e., 60 children, 0-5 yrs). **No**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

Service	Unit of Measure	Qty
Exchange	SF	**9,447**
Gas Station	SF	**None**
Auto Repair	SF	**None** *
Auto Parts Store	SF	**None**
Commissary	SF	**13,946**
Mini-Mart	SF	**None**
Package Store	SF	**None**
Fast Food Restaurants	Each	**None**
Bank/Credit Union	Each	**2**
Family Service Center	SF	**2,255**
Laundromat	SF	**None**
Dry Cleaners	Each	**None**
ARC	PN	**None**
Chapel	PN	**250**
FSC Classrm/Auditorium	PN	**None**
*Auto Hobby Shop	SF	**4,681**

15. Proximity of Closest Major Metropolitan Areas (provide at least three):

City	Distance (Miles)
Middlesex/Somerset/ Hunterdon PMSA*	**40**
Trenton, NJ PMSA	**42**
Philadelphia, PA / NJ PMSA	**35**
Monmouth/Ocean PMSA	**Base within PMSA**

*Primary Metropolitan Statistical Area (PMSA)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

16. Standard Rate VHA Data for Cost of Living:

Paygrade	With Dependents	Without Dependents
E1	204.23	114.27
E2	204.23	128.44
E3	198.89	146.55
E4	237.65	165.86
E5	265.35	185.27
E6	291.04	198.12
E7	332.21	230.77
E8	428.89	324.24
E9	383.30	290.97
W1	311.29	236.41
W2	296.53	232.78
W3	306.86	249.44
W4	296.53	262.91
O1E	281.08	208.50
O2E	277.09	220.92
O3E	296.93	251.20
O1	239.87	176.76
O2	242.30	189.38
O3	267.12	224.90
O4	295.23	256.74
O5	275.09	227.50
O6	245.70	203.37
O7	176.09	143.07

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

17. Off-base Housing Rental and Purchase

a. Fill in the following table for average rental costs in the area for the period 1 April 1993 through 31 March 1994.

Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	600.00	475.00	50.00
Apartment (1-2 Bedroom)	575.00	525.00	75.00
Apartment (3+ Bedroom)	775.00	700.00	80.00
Single Family Home (3 Bedroom)	950.00	850.00	150.00
Single Family Home (4+ Bedroom)	1000.00	975.00	200.00 - 250.00
Town House (2 Bedroom)	800.00	750.00	125.00
Town House (3+ Bedroom)	875.00	800.00	150.00
Condominium (2 Bedroom)	750.00	650.00	125.00
Condominium (3+ Bedroom)	875.00	725.00	150.00

b. What was the rental occupancy rate in the community as of 31 March 1994?

Type Rental	Percent Occupancy Rate
Efficiency	100%
Apartment (1-2 Bedroom)	98%
Apartment (3+ Bedroom)	100%
Single Family Home (3 Bedroom)	100%
Single Family Home (4+ Bedroom)	100%
Town House (2 Bedroom)	100%
Town House (3+ Bedroom)	95%
Condominium (2 Bedroom)	85%
Condominium (3+ Bedroom)	100%

c. What are the median costs for homes in the area?

Type of Home	Median Cost
Single Family Home (3 Bedroom)	146,008
Single Family Home (4+ Bedroom)	160,000+
Town House (2 Bedroom)	98,000
Town House (3+ Bedroom)	110.000
Condominium (2 Bedroom)	79,000
Condominium (3+ Bedroom)	97,700

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

d. For calendar year 1993, from the local MLS listings provide the number of 2, 3, and 4 bedroom homes available for purchase. Use only homes for which monthly payments would be within 90 to 110 percent of the E5 BAQ and VHA for your area.

Month	Number of Bedrooms		
	2	3	4+
January	5	7	-
February	-	5	-
March	7	3	1
April	3	4	-
May	3	3	-
June	5	3	-
July	1	5	1
August	3	4	-
September	2	3	1
October	4	7	-
November	3	6	1
December	7	4	1

NOTE: These figures represent those units that were actually sold between January 1, 1993 and December 31, 1993.

e. Describe the principle housing cost drivers in your local area.

18. For the top five sea intensive ratings in the principle warfare community your base supports, provide the following:

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area

NAWC HEADQUARTERS WILL SUPPLY INFORMATION

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

19. Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base.

Location	% Employees	Distance (mi)	Time(min)
Toms River, New Jersey	**18.4%**	**9.2**	**16.6**
Lakehurst, New Jersey	**12.0%**	**3.7**	**9.7**
Brick, New Jersey	**5.0%**	**13.9**	**22.5**
Jackson, New Jersey	**4.5%**	**9.0**	**14.4**
Browns Mills, New Jersey	**3.6%**	**26.0**	**25.0**

Five largest concentrations determined by analysis of zip code data from DCPDS (for civilians) and from information provided by Code 01A (for military).

Distance and time calculations based on information obtained from telephone contacts with a randomly selected sample of employees representing 5% of the total number of employees living in each of the five localities.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

20. Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the installation (to include any outlying sites) and their dependents:

a. List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ ACT Score	% HS Grad to Higher Educ	Source of Info
Manchester Township	**H.S.**	**9 thru 12**	*	**Public School None**	**415 - Verbal 473 - Math**	**74%**	**Manchester Township High School**
Ocean County Vo-Tech (OCVTS)	**H.S.**	**	***	**Public School None**	****	**25.5%**	**OCVTS**
Lakehurst Elementary School	**Primary**	**Kinder-garten thru 8**	*****	**Public School - None**	**N/A**	**N/A**	**Lakehurst Elementary School**

Notes:
***Trainable mentally retarded, extreme emotionally disturbed and extreme multiple handicapped .**

****Regular programs are for students in grades 10 through 12. Employment opportunity programs are offered to students in grades 9 through 12.**

*****OCVTS works with students with the following special needs: neurological impaired, perceptually impaired, emotionally disturbed, educable mentally retarded, visually impaired (blind), auditory impaired (deaf), communication handicaps, and orthopedically impaired.**

****** SAT scores are determined by the home school.**

***** Basic skills remediation, bilingual/ESL education, special education, gifted and talented education.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

b. List the educational institutions within 30 miles which offer programs off-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Trenton State College	**Day**	**No**	**No**	**Yes**	**Yes**	**Yes**
	Night	**No**	**No**	**Yes**	**Yes**	**Yes**
Rider College	**Day**	**No**	**No**	**Yes**	**Yes**	**Yes**
	Night	**No**	**No**	**Yes**	**Yes**	**Yes**
Princeton University	**Day**	**No**	**No**	**Yes**	**Yes**	**Yes**
	Night	**No**	**No**	**Yes**	**Yes**	**Yes**
Brick	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**Yes**	**No**	**No**	**No**	**No**
Jackson	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**Yes**	**No**	**No**	**No**	**No**
Lakewood	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**Yes**	**No**	**No**	**No**	**No**
Lacey	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**Yes**	**No**	**No**	**No**	**No**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Manchester	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Pinelands Regional	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Point Pleasant Boro	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Southern Regional	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Toms River South	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Ocean County Vo-Tech Brick Twp	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No
Ocean County Vo-Tech Toms River	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No
Ocean County Vo-Tech Jackson	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No
Ocean County Career & Tech Institute	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Ocean County College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Georgian Court College	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Shore Tractor Trailer Training	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Star Technical Institute - Ocean County	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Watson Security Agent Academy	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Ocean County First Aid Academy	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Ocean County School of Real Estate	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Brick Computer Science Institute	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Concorde School of Hair Design	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Ocean County Vocational Technical School	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Shore Tractor Trailer Training, Inc.	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Smith Institute of Cosmetology	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Star Technical Institute	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Travel Agents International	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
American School of Dog Grooming	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Absolute Software Training	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Burlington County College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Bordentown Regional	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Edgewater Park	Day	No	No	No	No	No
	Night	Yes	No	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Florence Township	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Lenape High School	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Maple Shade	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Moorestown	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Palmyra	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Pemberton Township	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Tabernacle	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Willingboro	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Burlington County Institute of Technology	Day	No	Yes	No	No	No
	Night	Yes	Yes	No	No	No
East Windsor Regional	Day Etra Park	Yes	No	No	No	No
	Night Hghtstow n	Yes	No	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Hamilton Twp Brice Middle School	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
West Windsor Plainsboro Regional	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Mercer County Community College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Academy of Computer Graphics	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Star Technical Technical - Burlington	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Monmouth Adult Educ. Comm. (MAECOM)	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Asbury Park Learning Ctr	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Brookdale Community College	Day	Yes	No	Yes	Yes	No
	Night	Yes	No	Yes	Yes	No
Brookdale Learning Ctr	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Freehold High School	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Matawan - Aberdeen Public Schools	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Concorde School of Hair Design	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Ocean County Vocational Technical School	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Shore Tractor Trailer Training, Inc.	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Smith Institute of Cosmetology	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Star Technical Institute	Day	No	Yes	No	No	No
	Night	No	No	No	No	No
Travel Agents International	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Monmouth Cty Assn for Retarded Citizens	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Monmouth Adult Education Comm.	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Monmouth County Vocational School	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Neptune Extension Programs	Day	No	No	No	No	No
	Night	Yes	No	No	No	No
Red Bank Boro Public Schools	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Union Beach Adult Schools	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
United Cerebral Palsy of Monmouth & Ocean Counties	Day	Yes	Yes	No	No	No
	Night	No	No	No	No	No
Monmouth College	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

c. List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

Institution	Type Classes	Program Type(s)				
		Adult High School	**Vocl/ Technical**	**Undergraduate**		**Graduate**
				Courses only	**Degree Program**	
Drexel University	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**No**	**No**	**No**	**No**	**Yes**
	Corres-pondence	**No**	**No**	**No**	**No**	**No**
Capitol College	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**No**	**No**	**No**	**No**	**Yes**
	Corres-pondence	**No**	**No**	**No**	**No**	**No**
Florida Institute of Technology	**Day**	**No**	**No**	**No**	**No**	**No**
	Night	**No**	**No**	**No**	**No**	**Yes**
	Corres-pondence	**No**	**No**	**No**	**No**	**No**
	Day					
	Night					
	Corres-pondence					

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

21. Spousal Employment Opportunities.

Provide the following data on spousal employment opportunities.

Skill Level	Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate**
	1991*	1992	1993	
Professional		02	07	AS OF 2/94
Manufacturing		-	-	8.79
Clerical		12	07	8.79
Service		02	09	8.79
Other		02	03	8.79

***FAMILY SERVICE CENTER NOT IN OPERATION.**
****STATE OF NEW JERSEY HOLDS ONLY A GENERAL UNEMPLOYMENT RATE.**

22. Medical/Dental.

a. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Active duty access to military medical care is adequate. During workhours, Monday through Friday, Branch Medical Clinic has sufficient staff to accommodate workload (two medical physicians (M.D.)) Additionally, Walson Medical Clinic at Fort Dix, New Jersey, provides limited in-patient care. No military emergency medical care is available in the local area. Civilian medical call is readily accessible in local area (including emergency services), Military dental is adequate presently through Branch Dental Clinic (one dentist), However, incumbent is presently scheduled to transfer without relief in summer 1995. Dental care will shift to rotational support out of Branch Denal Clinic at Naval Weapons Station, Earle, New Jersery.

b. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

Routine medical care for dependents is adequate through the Branch Medical Clinic. No military emergency care is available in the local area. Dependent dental care is adequate using civilian care. Due to staffing, Base Dental Clinic will treat only dependent dental emergencies.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

23. **Crime Rate.** Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

Crime Definitions*	FY 1991	FY 1992	FY 1993
1. Arson (6A)	**180**	**165**	**0**
Base Personnel - military	**0**	**0**	**0**
Base Personnel - civilian	**2**	**1**	**0**
Off Base Personnel - military	**0**	**0**	**0**
Off Base Personnel - civilian	**178**	**164**	**0**
2. Blackmarket (6C)	**0**	**0**	**0**
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	**0**	**51**	**1**
Base Personnel - military	**0**	**0**	**1**
Base Personnel - civilian	**0**	**0**	**0**
Off Base Personnel - military	**0**	**0**	**0**
Off Base Personnel - civilian	**N/A**	**51**	**0**
4. Postal (6L)	**0**	**0**	**0**
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
5. Customs (6M)	**0**	**0**	**0**
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	**3,448**	**3,210**	**4**
Base Personnel - military	**8**	**5**	**0**
Base Personnel - civilian	**5**	**11**	**4**
Off Base Personnel - military	**0**	**0**	**0**
Off Base Personnel - civilian	**3,435**	**3,194**	**0**

***Off Base Statistics**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Crime Definitions*	FY 1991	FY 1992	FY 1993
7. Larceny - Ordnance (6R)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)	15	15	9
Base Personnel - military	7	3	2
Base Personnel - civilian	6	12	7
Off Base Personnel - military	2	0	0
Off Base Personnel - civilian	0	0	0
9. Larceny - Personal (6T)	44	12	18
Base Personnel - military	25	2	6
Base Personnel - civilian	19	10	12
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	N/A	N/A	0
10. Wrongful Destruction (6U)	61	52	47
Base Personnel - military	28	22	26
Base Personnel - civilian	33	30	22
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
11. Larceny - Vehicle (6V)	787	767	1
Base Personnel - military	2	1	0
Base Personnel - civilian	0	0	1
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	785	766	0
12. Bomb Threat (7B)	1	16	2
Base Personnel - military	1	4	1
Base Personnel - civilian	0	12	0
Off Base Personnel - military	0	0	1
Off Base Personnel - civilian	0	0	0
13. Extortion (7E)		0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

***Off-Base Statistics**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Crime Definitions*	FY 1991	FY 1992	FY 1993
14. Assault (7G)	617	683	18
Base Personnel - military	3	14	11
Base Personnel - civilian	1	11	6
Off Base Personnel - military	2	1	1
Off Base Personnel - civilian	611	657	0
15. Death (7H)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0	5	1
Base Personnel - military			0
Base Personnel - civilian			1
Off Base Personnel - military			0
Off Base Personnel - civilian			0
18. Narcotics (7N)	8	7	8
Base Personnel - military	7	3	4
Base Personnel - civilian	1	4	1
Off Base Personnel - military	0	0	1
Off Base Personnel - civilian	N/A	N/A	2
19. Perjury (7P)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)	210	198	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian	210	198	
21. Traffic Accident (7T)	55	44	44
Base Personnel - military	18	10	18
Base Personnel - civilian	34	33	24
Off Base Personnel - military	3	1	1
Off Base Personnel - civilian	0	0	1
22. Sex Abuse - Child (8B)	0	1	1
Base Personnel - military	0	1	1
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

***Off Base Statisics**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Crime Definitions*	FY 1991	FY 1992	FY 1993
23. Indecent Assault (8D)	0	3	1
Base Personnel - military	0	1	0
Base Personnel - civilian	0	1	1
Off Base Personnel - military	0	1	0
Off Base Personnel - civilian	0	0	0
24. Rape (8F)	84	87	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian	84	87	
25. Sodomy (8G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

***Off Base Statistics**

LAST CENSUS - OCEAN COUNTY = 1990

POPULATION = 433,203

ESTIMATED POPULATION - JULY 1993 = 443,002

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

23. Crime Rate.

Crime rate for Ocean County per 100,000 population:

	1991	1992	1993**
Violent:	210	220	220
Property:*	3800	3550	3420
Drugs:	323	293	353

* Property includes: burglary, larceny, motor vehicle theft
** 1993 figures were not available at time of original data call submission.

TAB A

TECHNICAL OPERATIONS

FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Technical Center Site:	Naval Air Warfare Center Aircraft Division LKE Lakehurst, NJ 08733
Functional Support Area:	1. Platform 1.2 Aircraft

	In-House WYs	In-House Expend. $(K)	Out-Of-House Expend. $(K)	Direct Cite $(K)	Comments
RDT&E 1. Basic Research					
2. Exploratory Development	61.7	10,061.7	2,589.6	1,000.0	
3. Advanced Development	20.41	2,667.3	50.0	370.0	
4. Eng. & Mfg. Development	97.8	14,649.5	1,713.1	5,000.0	
5. RDT&E Management Support	0.8	112.0	0.0	0.0	
6. Operational Systems Development	0.29	46.6	0.0	0.0	
ACQUISITION 7. Production	577.1	111,505.8	11,569.0	267,576.2 (R)	
8. Acceptance Testing	0.19	28.2	0.0	0.0	
9. Modernization	58.99	8,387.6	3,016.3	0.0	
10. Program Support	2.09	312.6	5.3	0.0	
LIFE-TIME SUPPORT 11. Maintenance	0.44	60.0	0.0	0.0	
12. Repair	.30	41.5	0.3	0.0	
13. Testing					
14. In-Service Engineering	55.0	7,546.1	487.0	0.0	
15. Program Support	288.8	41,429.4	3,503.6	4,533.3	
16. Retirement					
GENERAL 17. Training/Operational Support	0.06	8.7	0.0	0.0	
18. Simulation, Modeling, & Analysis					

Revised pg 162

ENCLOSURE (3)

Technical Center Site:	Naval Air Warfare Center Aircraft Division LKE Lakehurst, NJ 08733
Functional Support Area:	1. Platform 1.2 Aircraft

	In-House WYs	In-House Expend. $(K)	Out-Of-House Expend. $(K)	Direct Cite $(K)	Comments
RDT&E 1. Basic Research					
2. Exploratory Development	61.7	10,061.7	2,589.6	1,000.0	
3. Advanced Development	20.41	2,667.3	50.0	370.0	
4. Eng. & Mfg. Development	97.8	14,649.5	1,713.1	5,000.0	
5. RDT&E Management Support	0.8	112.0	0.0	0.0	
6. Operational Systems Development	0.29	46.6	0.0	0.0	
ACQUISITION 7. Production	577.1	111,505.8	11,569.0	26,576.2	
8. Acceptance Testing	0.19	28.2	0.0	0.0	
9. Modernization	58.99	8,387.6	3,016.3	0.0	
10. Program Support	2.09	312.6	5.3	0.0	
LIFE-TIME SUPPORT 11. Maintenance	0.44	60.0	0.0	0.0	
12. Repair	.30	41.5	0.3	0.0	
13. Testing					
14. In-Service Engineering	55.0	7,546.1	487.0	0.0	
15. Program Support	288.8	41,429.4	3,503.6	4,533.3	
16. Retirement					
GENERAL 17. Training/Operational Support	0.06	8.7	0.0	0.0	
18. Simulation, Modeling, & Analysis					

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TAB B

SPECIAL FACILITIES AND EQUIPMENT

FACILITIES/EQUIPMENT CAPABILITY FORM

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

SPECIAL FACILITIES AND EQUIPMENT FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Steam Catapult Complex

1. State the primary purpose(s) of the facility/equipment.

This steam catapult complex is the only faciltiy in the world with the abillity to launch both aircraft and deadloads. The TC13 steam catapults are used to develop and evaluate improvements to the launcher system. Modifications to the mechanical, electrical, or control systems are designed, prototyped, installed, and evaluated in a simulated shipboard environment at the TC13 complex. The TC13 is also used to demonstrate the compatibility of the fleet aircraft to the catapult. This includes the interface between the aircraft and the catapult system, both static and dynamic. This site is also extensively used to support in-service engineering efforts. Additionally, technical documentation including installation instructions, manual changes and maintenance actions are evaluated for the approved changes using the TC13 catapult complex. The TC13 complex is also used for government final adjustment and acceptance of several critical catapult components. The use of the steam catapult is required to insure that these parts, when installed and operated on a fleet catapult will function properly when subjected to the high temperatures (in excess of 480Υ F) with extremely high steam flow rates.

The Catapult Complex is made up of the TC13 Mod 0 and TC13 Mod 2 Catapults and a high pressure steam plant. Both catapults are capable of launching deadloads or aircraft weighing up to 90,000 pounds and producing end speeds up to 185 knots under normal conditions and up to 300 knots for special catapult tests. The steam plant is capable of producing steam at up to 138,000 pounds per hour with or without superheat.

A unique feature of both the TC13 Mod 0 and Mod 2 is the deadload launch capability. Recessed guide slots are used to maintain longitudinal stability of the four-wheeled deadload vehicles, and a friction brake system of approximately 100 million foot-pound capacity brings the deadloads to a stop 100 to 500 feet ahead of the catapult. The deadloads are used primarily for testing the catapult performance prior to actual aircraft launch. The TC13 complex is supported by a dedicated instrumentation system serving dynamic measurement needs for all operations. Each catapult has 64 channels of recording capability. In addition, the complex has comprehensive telemetry support to facilitate deadload requirements and a range of visiting aircraft. Virtually any subsystem of the catapult can be monitored with the integral instrumentation, providing a highly effective platform for performance evaluation.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the steam catapult complex is $120,500 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the TC13 Mod 0 and TC13 Mod 2 catapults is 1,224,000 pounds. The estimated volume of the two catapults is 14,930 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

This facility includes a steam power plant capable of producing 600 psi steam at 138,000 pounds per hour (currently using fuel oil to fire the boilers). The complex requires 751 MWH of electrical power.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

This facility must be installed at the foot of or adjacent to a long runway capable of operating Navy jet aircraft. The catapult centerlines should be with 1 1/2 degrees of the runway centerline to permit safe aircraft launches for all required evaluations

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

An Air Installation Compatibility Use Zone (AICUZ) for aircraft safety and noise abatement zones which does not limit required aircraft operations. All environmental controls required for steam boiler plant operation. This facility also requires environmental designs to contain steam catapult fluid discharges, and aircraft fuel and hydraulic fluid discharges.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Due to the complexity of the installation which includes expansive foundations, extensive high pressure piping, and miles of control wiring, it would be extremely difficult and very costly to relocate this equipment. This is the only facility in the world with this capability. A facility like this is required for the Navy to safely operate steam catapults aboard aircraft carriers.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was designed specifically for this location. It was constructed in 1958. As new steam catapults are developed they are installed at this location for prototype and first article testing. The current catapults installations were completed in 1986 (TC13 Mod 2) and 1959 (TC13 Mod 0). All components for the catapults were transported to this site by truck, assembled and then installed.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The catapult complex is utilized 60% of the available work days each year.

12. Provide the projected utilization data out to FY1997.

The catapult complex is projected to be used 64.2% of the available work days through FY1997.

13. What is the approximate number of personnel used to operate the facility/equipment?

This facility requires 31 people to operate.

14. What is the approximate number of personnel needed to maintain the equipment?

15 people

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

STEAM CATAPULT COMPLEX

High Pressure Steam Plant

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Runway Arrested Landing Site

1. State the primary purpose(s) of the facility/equipment.

This is the only facility in the world capable of making both high-speed ground roll-in arrestments and fly-in arrestments on shipboard arresting gear. The Runway Arrested Landing Site (RALS) is used for development and evaluation of aircraft recovery equipment and aircraft compatibility. This site is used to evaluate all changes to shipboard arresting gear prior to introduction into the Fleet. At this site all data necessary for developing recovery bulletins that enable aircraft to land aboard aircraft carriers is generated through the use of its unique capability of making both high-speed ground roll-in arrestments and fly-in arrestments. RALS is also used for initial aircraft testing of shorebased arresting gear and development of applicable recovery bulletins. This facility is used to resolve Fleet problems resulting from unusual circumstances by duplicating and evaluating the problem under safe, controlled conditions.

The complex consists of an underground test bed located on a 12,000 foot dedicated test runway. Mark 7 Mod 1, Mod 2, and Mod 3 arresting engines are located under the runway and accurately simulate an aircraft carrier installation. Utilities, and instrumentation terminations are available at several prepared locations for the installation of shorebased arresting engines.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for RALS is $28,544 K

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the major equipment installed at RALS is 314,400 pounds. The volume is 4676 cubic feet. Due to the permanence of the structure it has not been included in these totals.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The facility requires 300 MWH of electrical power.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

This facility must be installed on a long runway at least 3000 feet from the approach end with a minimum of 5000 feet of usable runway beyond this facility.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

An Air Installation Compatibility Use Zone (AICUZ) study for aircraft safety and noise abatement zones which does not limit required aircraft operation. The facility requires environmental environmental designs to contain accidental arresting gear fluid discharges.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Due to the complexity of the installation which includes expansive foundations, it would be extremely difficult and costly to relocate this equipment. This is the only facility in the world capable of making both high-speed ground-in arrestments and fly-in arrestments on all types of arresting engines used by the fleet A facility like this is required for the Navy to safely operate aircraft aboard aircraft carriers.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was designed specifically for this location. It was constructed in 1958. The arresting gear and installation material were transported to this site by truck The arresting gear and other large pieces of equipment were lowered into the below deck position and the special removable deck section was installed. Final assembly was accomplished in place.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (89-93). Define the unit of measure used.

The Runway Arrested Landing Site averages 379 events per year.

12. Provide the projected utilization data out to FY1997.

The projected Runway Arrested Landing Site utilization through FY1997 is 562 events per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

22 people

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. What is the approximate number of personnel needed to maintain the equipment?

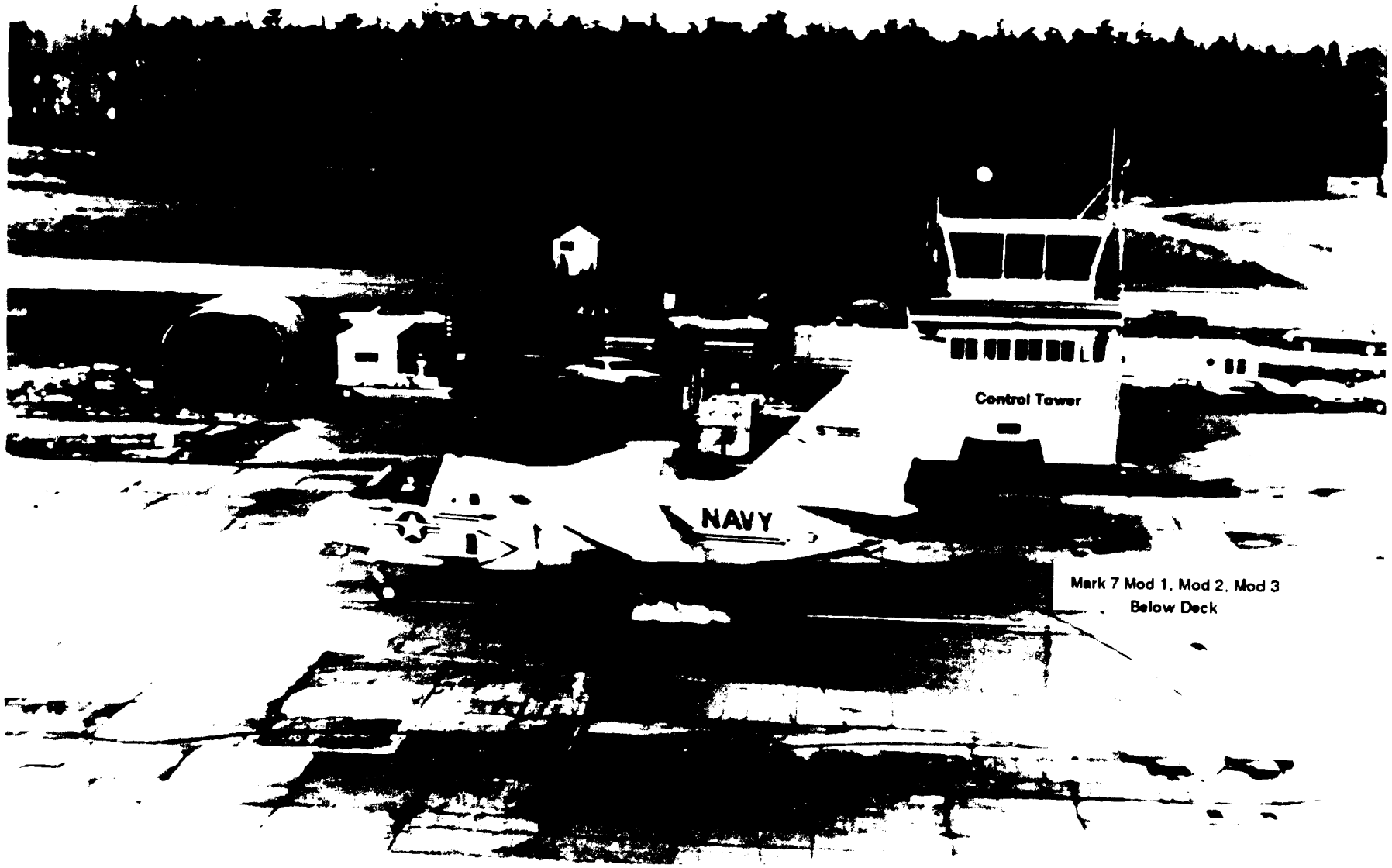
3 people

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

RUNWAY ARRESTED LANDING SITE



Revised pg

SPECIAL FACILITIES AND EQUIPMENT FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Jet Car Track Site

1. State the primary purpose(s) of the facility/equipment.

This facility is unique to the Navy for conducting tests in the 250 knot and below speed range. The Jet Car Track Sites are used to support the development and evaluation of Aircraft Platform Interface (API) mission unique hardware. The three active tracks, ranging in length from one mile to 1-1/2 miles, are primarily used to: develop shipboard and shorebased arresting gear; qualify manufacturers of wire rope used for arresting gear cross deck pendants (CDPs); conduct dynamic load quality acceptance (lot sampling) tasks on CDPs; and demonstrate airframe compatibility with barricades. Both Mark 7 Mod. 3 and Mark 7 Mod. 1 arresting gears are installed to enable these evaluations to be conducted.

Jet cars powered with J-57 engines are used to propel deadloads (4 wheeled vehicles or airframes) that weigh up to 100,000 pounds to speeds as high as 250 knots. Using these deadloads it is possible to simulate service conditions or aircraft energy level with no risk to equipment or personnel.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the Jet Car Track Site is $24,537 K. (R)

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the major equipment installed or used at JCTS is 495,130 pounds. The volume is 27,088 cubic feet. Due to the nature of the permanence of the structure it has not been included in these totals.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The facility requires 1599 MWH of electrical power.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None.

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Jet Car Track Site

1. State the primary purpose(s) of the facility/equipment.

This facility is unique to the Navy for conducting tests in the 250 knot and below speed range. The Jet Car Track Sites are used to support the development and evaluation of Aircraft Platform Interface (API) mission unique hardware. The three active tracks, ranging in length from one mile to 1-1/2 miles, are primarily used to: develop shipboard and shorebased arresting gear; qualify manufacturers of wire rope used for arresting gear cross deck pendants (CDPs); conduct dynamic load quality acceptance (lot sampling) tasks on CDPs; and demonstrate airframe compatibility with barricades. Both Mark 7 Mod. 3 and Mark 7 Mod. 1 arresting gears are installed to enable these evaluations to be conducted.

Jet cars powered with J-57 engines are used to propel deadloads (4 wheeled vehicles or airframes) that weigh up to 100,000 pounds to speeds as high as 250 knots. Using these deadloads it is possible to simulate service conditions or aircraft energy level with no risk to equipment or personnel.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the Jet Car Track Site is $46,000 K

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the major equipment installed or used at JCTS is 495,130 pounds. The volume is 27,088 cubic feet. Due to the nature of the permanence of the structure it has not been included in these totals

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The facility requires 1599 MWH of electrical power.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

The facility requires environmental designs to contain accidental jet fuel and hydraulic fluid discharges.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Due to the length of the jet car tracks (which includes power stroke, braking, runout, and safe zones) and the complexity of the installation of the barricade and arresting systems, it would be extremely difficult and very costly to relocate this equipment. This is the only facility in the Navy with this capability.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was designed specifically for this location. It was constructed in 1958. All material for the Jet Car Track Sites were transported to the site by truck. Installation and final assembly of the equipment including arresting engines, jet cars, and deadloads was completed on site.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The Jet Car Track Site averages 253 events per year.

12. Provide the projected utilization data out to FY1997.

The projected Jet Car Track Site utilization through FY1997 is 370 events per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

14 people per track

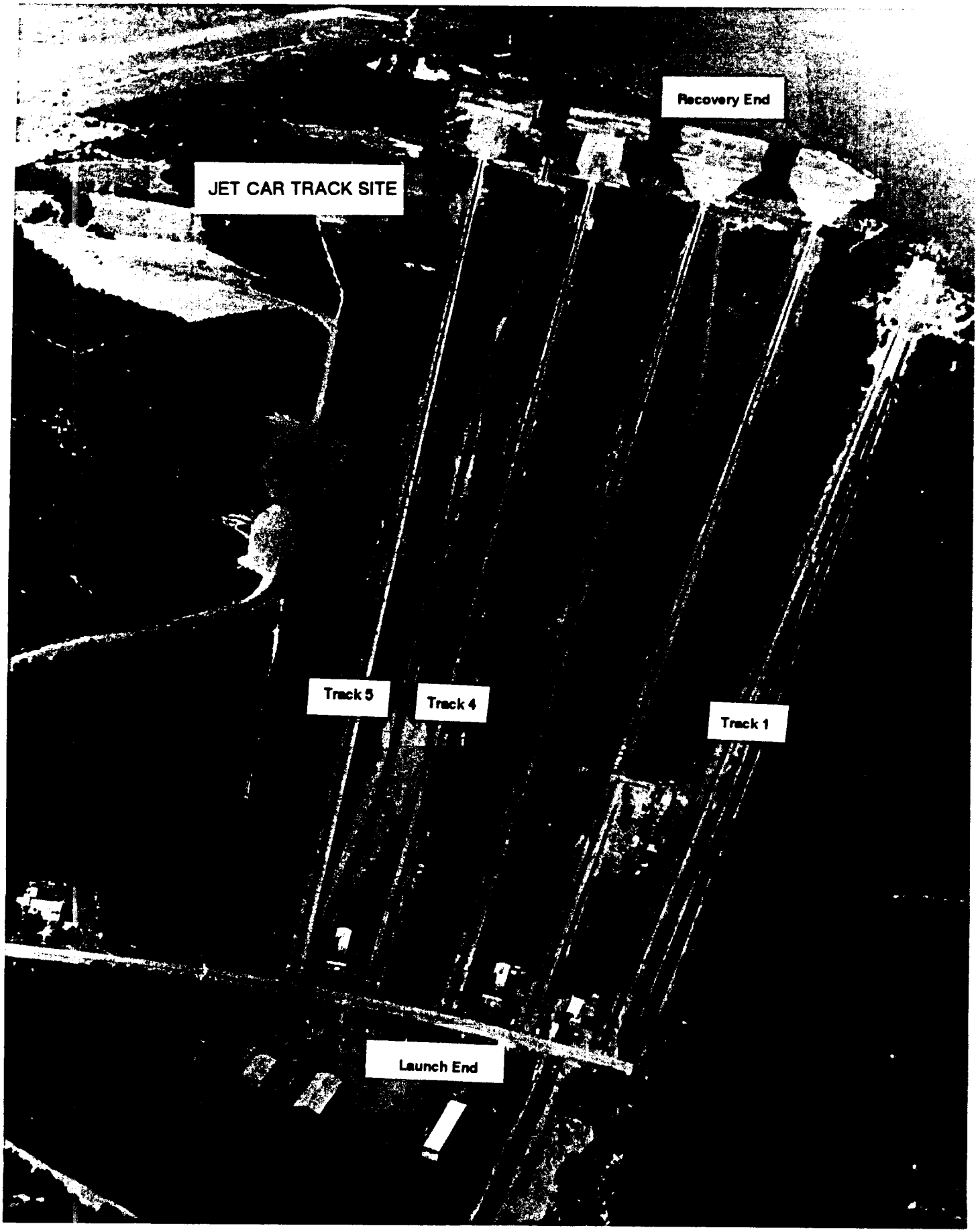
14. What is the approximate number of personnel needed to maintain the equipment?

4 people

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION


Recovery End
JET CAR TRACK SITE
Track 5
Track 4
Track 1
Launch End

SPECIAL FACILITIES AND EQUIPMENT FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	Lakehurst, NJ
Facility /Equipment Nomenclature or Title	Runway

1. State the primary purpose(s) of the facility/equipment.

This is the only facility in the world dedication to the Aircraft Landing and Recovery Equipment (ALRE).

This 12,000 foot runway is dedicated to evaluation of Aircraft Landing and Recovery Equipment programs. The runway forms the nucleus of all fixed-wing capable sites at the Center. There are steam catapults at the approach end of runway 30; shipboard arresting gear at the steel mid-section; shorebased arresting gear at various locations; and a Mark 8 Mod 0 Fresnel Lens Optical Landing System which can be set up for either runway 30 or 12. The runway is equipped with landing aids and a runway lighting system.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the runway is $17,720 K.

4. Provide the gross weight and cube of the facility/equipment.

N/A

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

None

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

An Air Installation Compatibility Use Zone (AICUZ) study for aircraft safety and noise abatement zones which does not limit required aircraft operations.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This 12,000 foot runway is not difficult to replicate at another location. However, the importance of this asset is that it enables the other facilities in the complex (steam catapults, Runway Arrested Landing Site, and Jet Blast Deflector Site) to conduct the required evaluations with fixed wing aircraft. Without this runway aircraft launches at the steam catapults, evaluation of arresting equipment installed at the Runway Arrested Landing Site, and Visual Landing Aid equipment development programs could not be conducted with aircraft. This is the only facility in the world dedicated to ALRE development.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was constructed at this location. It was constructed in 1957. All material was transported to this site by truck.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The runway averages 549 aircraft events per year.

12. Provide the projected utilization data out to FY1997.

The projected runway utilization through FY1997 is 603 aircraft events per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

5 people

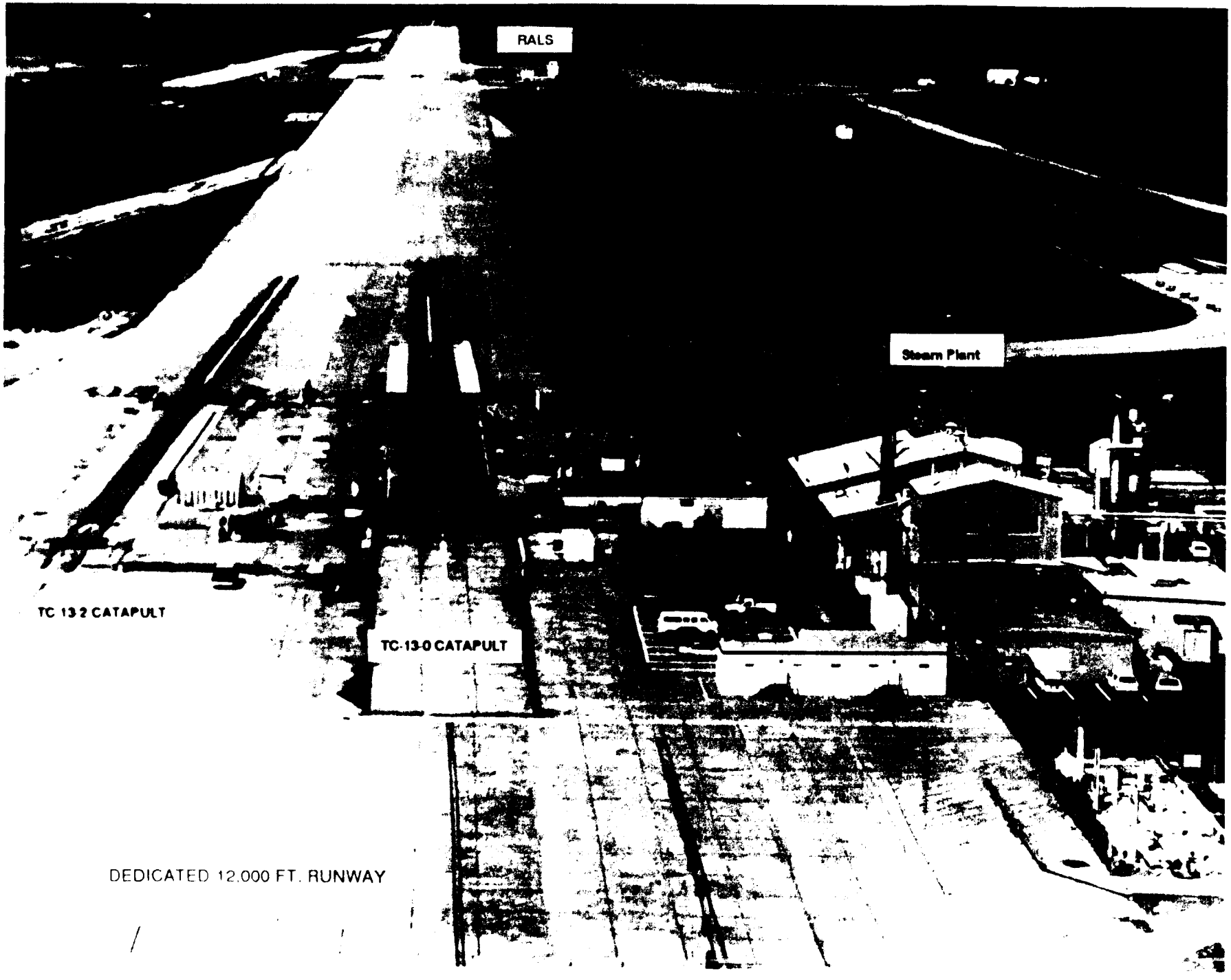
14. What is the approximate number of personnel needed to maintain the equipment?

1 person

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION


RALS
Steam Plant
TC 13-2 CATAPULT
TC-13-0 CATAPULT
DEDICATED 12,000 FT. RUNWAY

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Elevated Fixed Platform

1. State the primary purpose(s) of the facility/equipment.

This is the only facility in the world capable of evaluation of the Recovery Assist Securing and Traversing System (RAST). The Elevated Fixed Platform (EFP) is used for development and evaluation of the Recovery Assist Securing and Traversing System, and its components. It is also used to evaluate other helicopter and Vertical Takeoff and Landing (VTOL) recovery and securing equipment and procedures. The simulated hangar face enables evaluation of Air Capable Ship Visual Landing Aids (VLA) and Night Vision Goggle (NVG) compatibility with VLA systems.

The Elevated Fixed Platform (EFP) consists of a 60 by 85 foot steel and concrete deck built atop a 25 foot high building which contains a Recovery Assist, Securing and Traversing (RAST) System. A hangar face with VLA lighting package and deck markings present the pilot with a realistic shipboard landing environment. The height of the platform provides a change in ground effect as the aircraft transitions over the platform, resulting in true flight characteristics. Aircraft having gross weights of up to 90,000 pounds can be landed at up to 2.67 Gs.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the Elevated Fixed Platform and equipment is $4,160 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the equipment installed at the EFP is 28,179 pounds. The volume of this equipment is 811 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The facility requires 783 MWH of electrical power.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

An Air Installation Compatibility Use Zone (AICUZ) study for aircraft safety and noise abatement zones which does not limit required aircraft operations.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This facility would be difficult to relocate. This is the only facility in the world with this capability. It is the only facility that can be used for evaluating RAST equipment and procedures.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was designed specifically for this location. It was constructed in 1971. All material for the Elevated Fixed Platform including the Recovery Assist Securing and Traversing System was transported to the site by truck. Installation and final assembly of the equipment was completed on site.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The Elevated Fixed Platform averages 117 events per year.

12. Provide the projected utilization data out to FY1997.

The projected Elevated Fixed Platform utilization through FY1997 is 196 events per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

7 people

14. What is the approximate number of personnel needed to maintain the equipment?

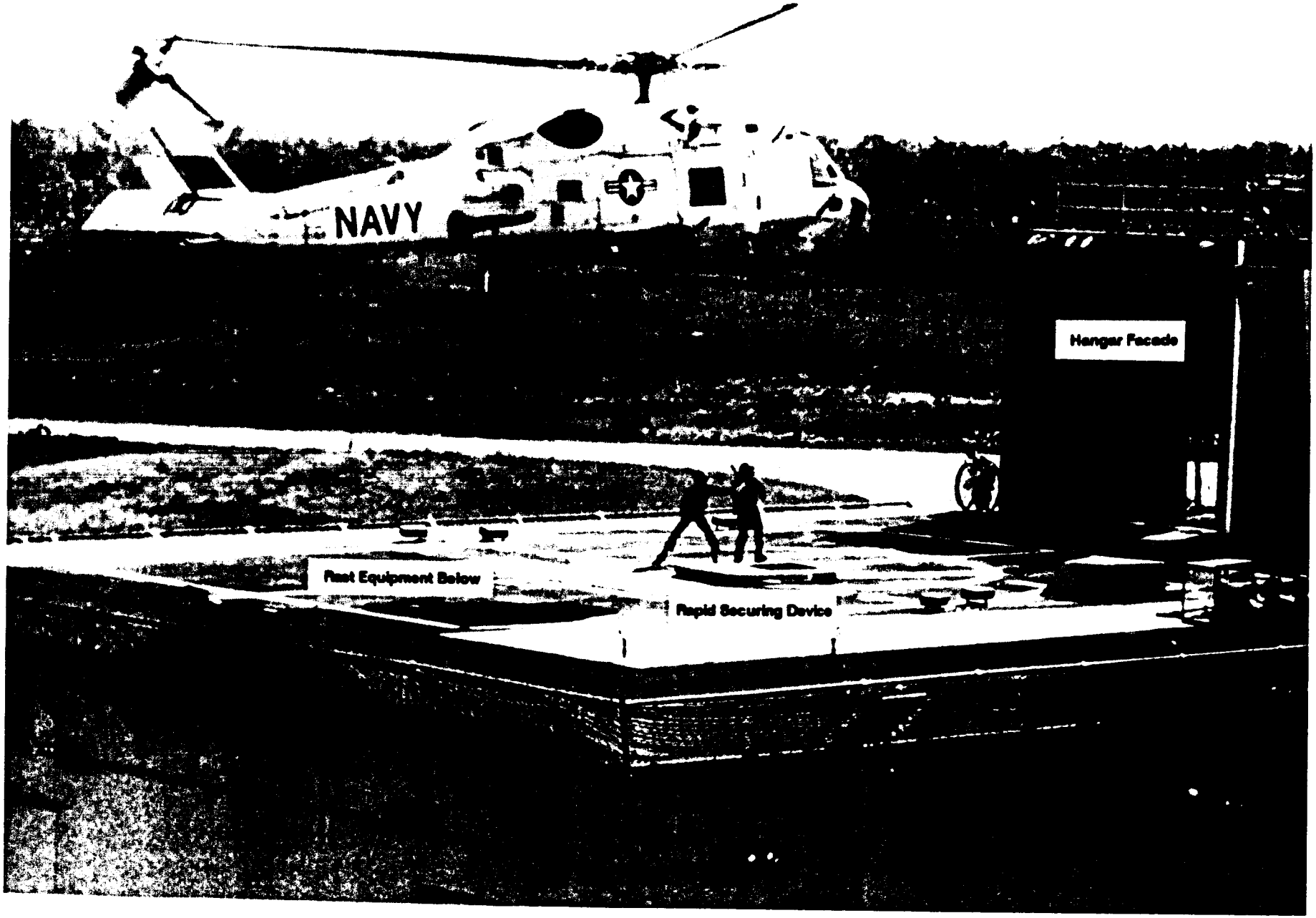
1 person

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

ELEVATED FIXED PLATFORM



SPECIAL FACILITIES AND EQUIPMENT FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Jet Blast Deflector Site

1. State the primary purpose(s) of the facility/equipment.

This is the only site in the world capable of conducting required aircraft evaluations with a Mark 7 Mod. 0 Jet Blast Deflector (JBD). The JBD site is used for the development and evaluation of JBD components which include module design and coatings, and the cooling system. It is also used to demonstrate aircraft compatibility with the JBD, which is a contractual requirement for all Navy aircraft.

The JBD site which includes a Mark 7 Mod 0 JBD, hydraulic system to raise and lower the JBD panels, an in-ground 30,000 gallon tank to store the cooling water, and a 1200 gallon per minute pump that circulates the cooling water through the JBD modules. The JBDs are required on aircraft carriers since the orientation of ship's catapults requires that the exhaust wakes of the jet aircraft turning up to full power during the launch cycle are deflected so as not to cause heat and blast damage to other aircraft, equipment and personnel on the flight deck.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

This facility is a fixed asset.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for the JBD site is $3,334.3 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of the JBD is 52,480 pounds. The volume of the JBD is 640 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The facility requires 200 MWH of electrical power.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

This facility requires environmental designs to contain accidental jet fuel and hydraulic fluid discharges.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This facility would be difficult to relocate. This is the only facility in the world with this capability. It is the only facility that can conduct the required aircraft acceptance tests that demonstrate compatibility with the JBD.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

This facility was designed specifically for this location. It was constructed in 1973. All material for the Jet Blast Deflector site was transported to the site by truck. Installation and final assembly of the equipment was completed on site.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The Jet Blast Deflector Site averages 36 events per year.

12. Provide the projected utilization data out to FY1997.

The projected Jet Blast Deflector Site utilization through FY1997 is 14 events per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

12 people

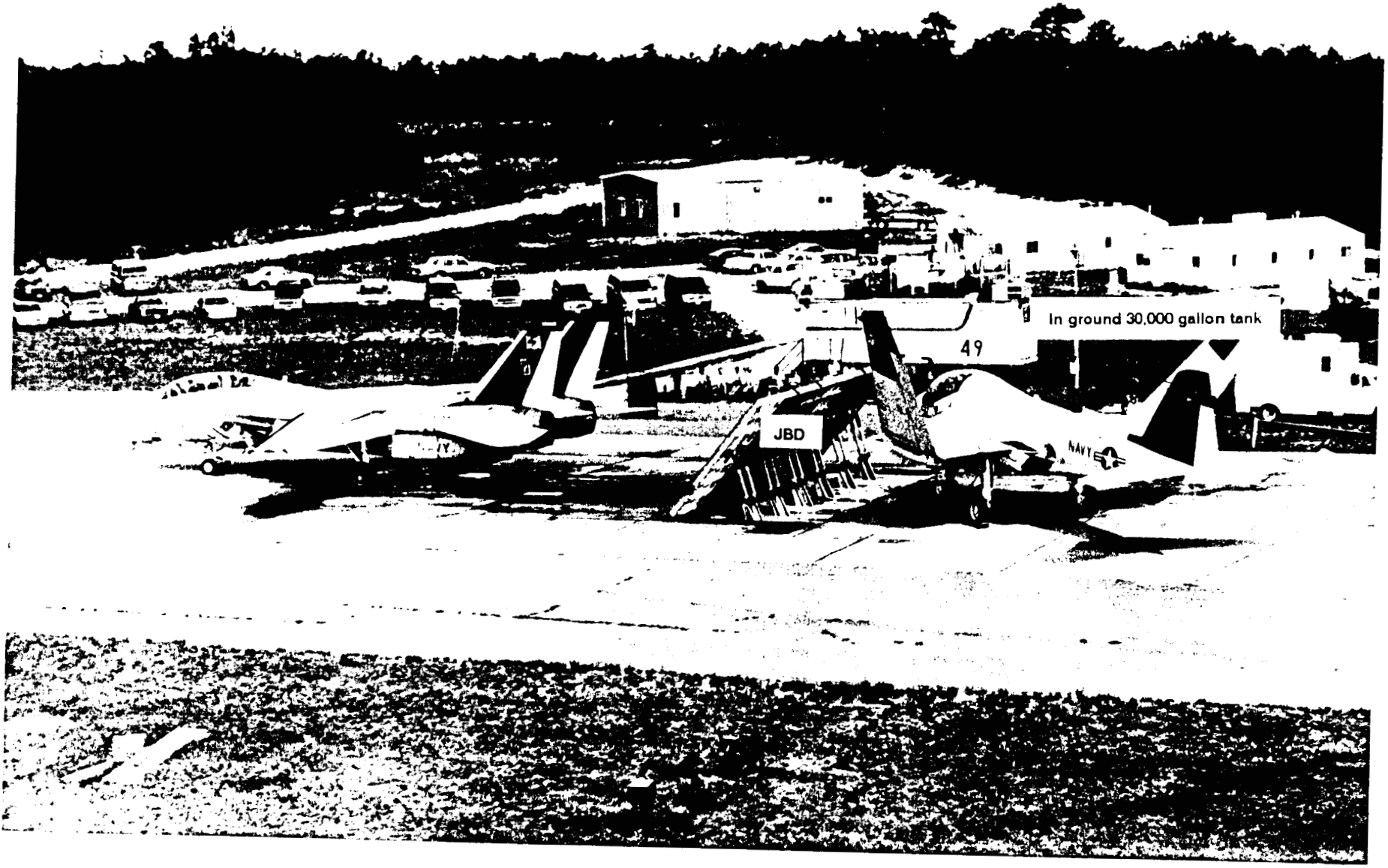
14. What is the approximate number of personnel needed to maintain the equipment?

1 person

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.

Attached

JET BLAST DEFLECTOR SITE



Document Separator

SPECIAL FACILITIES AND EQUIPMENT FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Environmental Test Lab

1. State the primary purpose(s) of the facility/equipment.

The capability of this laboratory is uniques to DoD. In support of the Aircraft Platform Interface (API) Mission the Environmental Test Laboratory provides equipment for testing API developed equipment to ascertain that systems will operate properly during their useful life in the environment for which they were designed. Lab equipment has capability for development testing, prototype testing, first article performance verification, and functional, qualification, and production testing.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

The equipment is moveable; however components occupy as much as 1,500 cubic feet and weigh as much as 40,000 pounds.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value of this facility is $3,147 K.

4. Provide the gross weight and cube of the facility equipment.

The gross weight is 105,480 pounds and the volume is 18,093 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

Electrical Power: 1,250 KVA @ 480 VAC, 3PH, 60Hz: 180 KVA @ 208 VAC, 3PH, 60Hz; 12 KVA @240 VAC, 1PH, 60Hz.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Industrial grade concrete floor for the entire lab except Navy Light Weight Shock Machine requires special foundation (12'X20'X8') per MIL-S-901 requirements.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity air scrubbing).

The existing ETL facilities are comprised of three adjacent spaces with an approximate total area of 7,500 square feet. Approximately 23,000 ft^3 (2,300 ft^2 X 10 ft in height) must be available with temperature (72^oF +/- 4°) and humidity control (40%, +/- 15%) for proper equipment operation. Equipment heat load is estimated at 5KVA.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The equipment would be very difficult to replicate. Most of the equipment, although acquired from commercial sources has been modified/customized for the specialized work associated with the API/ALRE/SE mission and would be difficult to replace. Some equipment such as the Horizontal Load Frame, the Catapult Capacity Selector Valve (CSV) Tester and the Catapult Shuttle Shock Absorber Tester (Soft Stop Tester) were designed in-house and are available only in Lakehurst. The 300,000 pounds capacity Horizontal Load frame, capable of cycling specimens of aircraft purchase cable up to 20 feet in length is used for emergency testing relating to shipboard wire rope problems. The Capacity Selector Valve (CSV) tester is used to functionally prove out all CSVs and components (spindles, metering rods and snubbers) prior to installation on Aircraft Carriers. The Soft Stop tester is used for First Article and life-cycle testing of the catapult shuttle "Soft Stop" which is used to absorb the energy of the shuttle when it is retracted to the launch position. Without these testing capabilities, Fleet readiness would be adversely affected. Such equipment does not exist at other Government installations and would not be available immediately from commercial sources. A discontinuity in availability of this equipment will have a detrimental effect on the Fleet.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The lab came into existence during the mid-1970's when the Naval Air Engineering Center was relocated from Philadelphia to Lakehurst as part of the Shore Realignment Action. Since then the capabilities have been improved and expanded with acquisitions by means of the CAPITAL PURCHASES PROGRAM. When no systems were available commercially, in-house design and integration of commercial subsystems was employed.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

Average utilization is 11.2%. The unit of measure used is % where 100% is equal to all replacement value equipment in operation 8 hours/day, 5 days a week, 52 weeks a year.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

12. Provide the projected utilization data out to FY1997.

Projected utilization through FY1997 is 23% per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

4 people

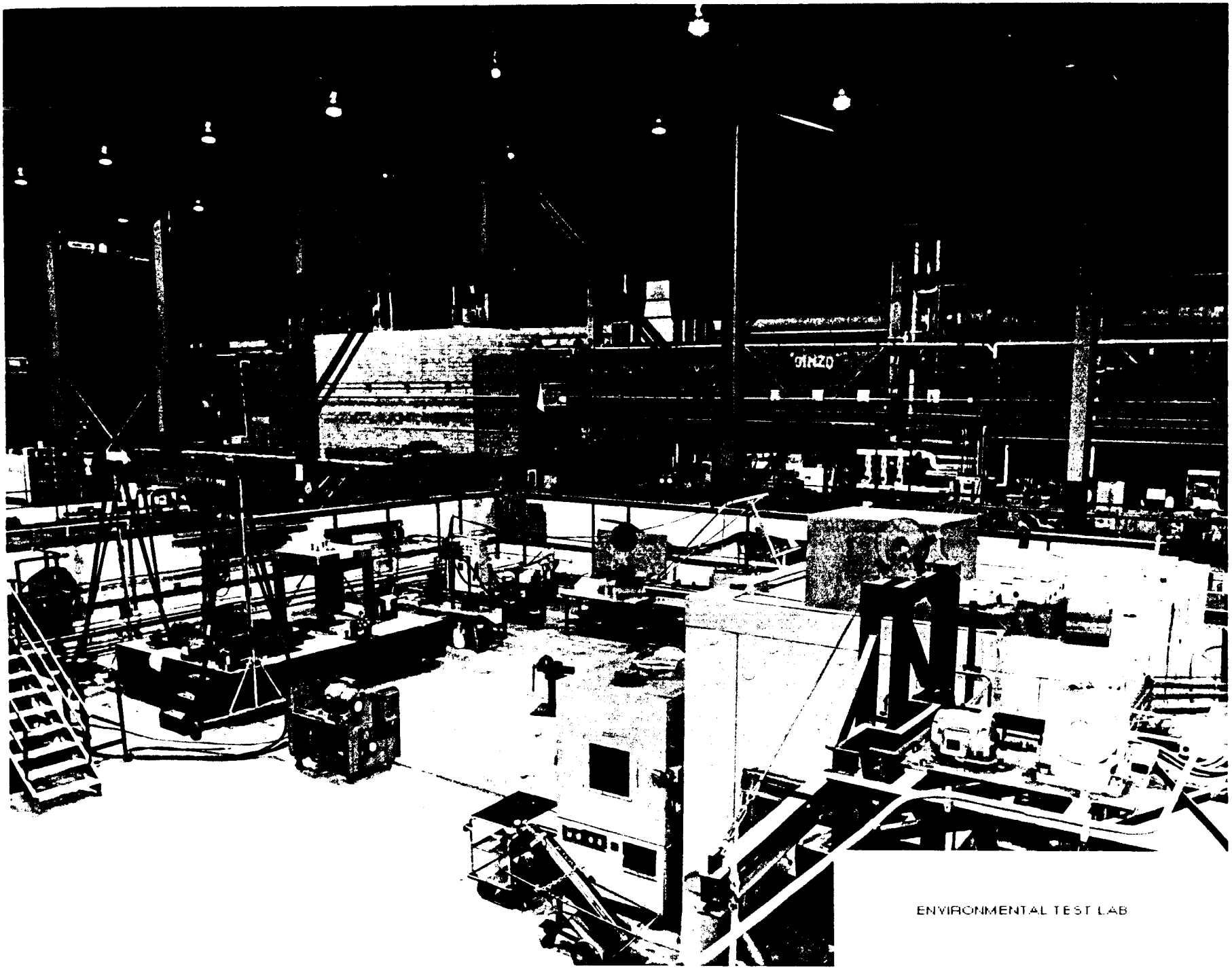
14. What is the approximate number of personnel needed to maintain the equipment?

Maintenance and Calibration: Contracted.

15. Provide on 8 1/2 x 11 black and white photo of the facility/equipment.

The enclosed photograph depicts the equipment that would be the most difficult to relocate: The Navy Light Weight Shock Machine, a large temperature humidity chamber, a hydraulically operated vibration system and a hydraulic power pump.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



ENVIRONMENTAL TEST LAB

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Electromagnetic Interference Laboratory

1. State the primary purpose(s) of the facility/equipment.

The Electromagnetic Interference (EMI) laboratory provides the necessary RF shielded environment and test equipment required for the evaluation of fleet systems and/or subsystems for Electromagnetic Compatibility (EMC) compliance in accordance with MIL-STD-461A/B/C/D (Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference).

The EMI facility also maintains the necessary equipment and facilities for performance of Electromagnetic Pulse (EMP) testing in accordance with MIL-STD-461C/D and the evaluation of electrostatic bag materials and EMI gasket materials.

The EMI facility is one of eleven test facilities nation-wide and the only one in the Aircraft Division which has been accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) to perform EMI testing in accordance with MIL-STD-461.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

The installation of RF anechoic material inside the shielded test enclosures was performed using a gluing process. This gluing process permanently adheres the anechoic material to the walls of the shielded enclosures therefore, prohibiting disassembly of the enclosures without severe damage to the anechoic material. Thus, the shielded test enclosures are considered Class 2 fixed assets. The shielded ante room does not have anechoic material installed but does share one of its walls with an adjacent shielded test enclosure. This shared wall does have anechoic material on the test enclosure side which would be permanently damaged if removal were attempted. The shielded ante room is considered a Class 2 fixed asset. The EMP test facility was constructed to allow a safety margin around the large generating antenna utilized during testing. This structure is permanently attached to the laboratory building and shares one of its walls with the laboratory building and therefore can not be moved without damage and thus is considered a Class 2 fixed asset. The non-shielded ante room houses a Radiated Susceptibility Test System which consists of six (6) equipment racks bolted together to form the system. The six (6) equipment racks have interconnecting wiring harnesses, electrical power, RF power cables, and miscellaneous wiring strung throughout all six racks and would require extensive disassembly prior to removal and therefore is considered a Class 2 moveable asset. The remaining ancillary test equipment can be moved without damage and therefore are considered Class 3 personal property items.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

3. Provide the replacement value of the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement values of the facilities/equipments have been calculated at $3,054 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight and cubic area of the facilities/equipments have been calculated at 133,627 pounds and 61,145 cubic feet

5. Indicate any "special utility support required by this facility/equipment other than normal electrical power.

The EMI laboratory operates utilizing 110 Volt, 60 Hz along with 208 Volt, 60 Hz, 3 Phase and 440 Volt, 60 Hz, 3 phase powers. The shielded test enclosures, ante rooms and some of the larger amplifier systems require the 208 Volt, 60 Hz, 3 phase power to operate. The 440 Volt, 60 Hz, 3 phase power is used to operate two motor generators which in turn supply the facility with both 28 Volt DC and 115 Volt, 3 phase, 400 Hz power for the operation of equipment under test.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

The two (2) test enclosures and one (1) of the ante rooms are constructed to provide substantial shielding characteristics. The minimum attenuation characteristics of these rooms are as follows.
-Attenuation to magnetic fields of 60 dB at 14 KHz increasing to 100 dB at 200 KHz.
-Attenuation to electric fields of 100 dB between 14 KHz and 50 MHz.
-Attenuation to plane waves of 100 dB between 50 MHz and 10 GHz.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

In accordance with the NVLAP requirements for laboratory accreditation, the shielded test facilities must maintain a temperature of 20° to 30° C and a relative humidity of not greater than 70%.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The shielded test enclosures and ante room along with the EMP test facility are considered fixed items in the EMI laboratory and therefore would require replication at a new facility. The replacement costs of these items is $3,054 K. The Naval Air Systems Command (NAVAIRSYSCOM) has dictated in NAVAIRINST 2410.1D that all MIL-STD-461/462 testing be performed at NVLAP accredited laboratories for all NAVAIRSYSCOM procurements. Relocation of the EMI facility would require new accreditation of the facility and therefore would impact the availability of accredited laboratories (limiting them to 10 worldwide) during this time frame to perform testing.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The procurement and construction of the facility/equipment at the EMI laboratory was in FY81. Expansion of the facility and improved capabilities were developed to keep abreast of increased requirements for MIL-STD-461 testing. The latest improvements were completed in FY92.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization for the past five fiscal years (1989-1993). Define the unit of measure used.

61.6% utilization based on 100% being equal to all replacement value equipment being operated 8 hrs/day, 5 days/week, 52 weeks/year.

12. Provide the projected utilization data out to FY1997.

Estimate 62% utilization per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

6 people

14. What is the approximate number of personnel needed to maintain the equipment?

The EMI facility requires 1/4 work year to maintain/calibrate the equipment.

15. Provide on 8 1/2 x 11 black and white photo of the facility/equipment.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

ELECTRO MAGNETIC
INTERFERENCE LABORATORY

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Metrology and Calibration

1. State the primary purpose(s) of the facility/equipment.

The purpose of this facility is to provide the Metrology and Calibration services in support of the NAWCADLKE API Group and various other Naval organizations throughout the fleet and provide support to the Navy's Aviators Breathing Oxygen Analyzer Program worldwide.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

Approximately 90% of the equipment will fall into the Class 2 category as moveable. 10% of the equipment is installed permanently at this facility and would require major reconstruction to relocate. The facility that houses the majority of the equipment used by this code is climatically controlled. These environmentally controlled laboratories would require major reconstruction to relocate.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for this equipment is $2,076 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight for the metrology and calibration equipment is 29,326 pounds. The volume of this equipment is 3159.5 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

The power requirements for these laboratories are unique. All power must be regulated and filtered to prevent damage and inaccurate measurements on highly sensitive electronic equipment. All dimensional and electronic calibration laboratories are climatically controlled for temperature, humidity, and pressure. Recirculating chilled water cooling systems are required for cooling of hydraulic power supply.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

NONE

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

All dimensional and electronic calibration laboratories are climatically controlled for temperature, humidity, and pressure. Recirculating chilled water cooling systems are required for cooling of hydraulic power supply.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Approximately 90% of the equipment could be relocated to another site providing the facility has the proper environment to house this equipment. The impact of this move would be significant to NAWCADLKE, due to the fact that all equipment requiring calibration would have to be shipped to another location. This would significantly increase down time and adversely effect operational availability of the API Evaluation sites.

Several pieces of equipment located at NAWCADLKE require on site calibration because of size, inability to move the equipment due to permanent installation, or because the equipment that requires calibration must be connected to a larger unit or system in order to be calibrated. This equipment/system would require a calibration team be dispatched from another location to perform the calibration.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The laboratory facility was constructed in 1961. Since that time, the laboratory has been expanded several times to its present size.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The utilization average is 39.7%. The definition is 100% utilization is equal to all replacement value equipment operating 8 hours/day, 5 days/week, 52 weeks/year.

12. Provide the projected utilization data out to FY1997.

The projected utilization through FY1997 is 40% per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

14 people

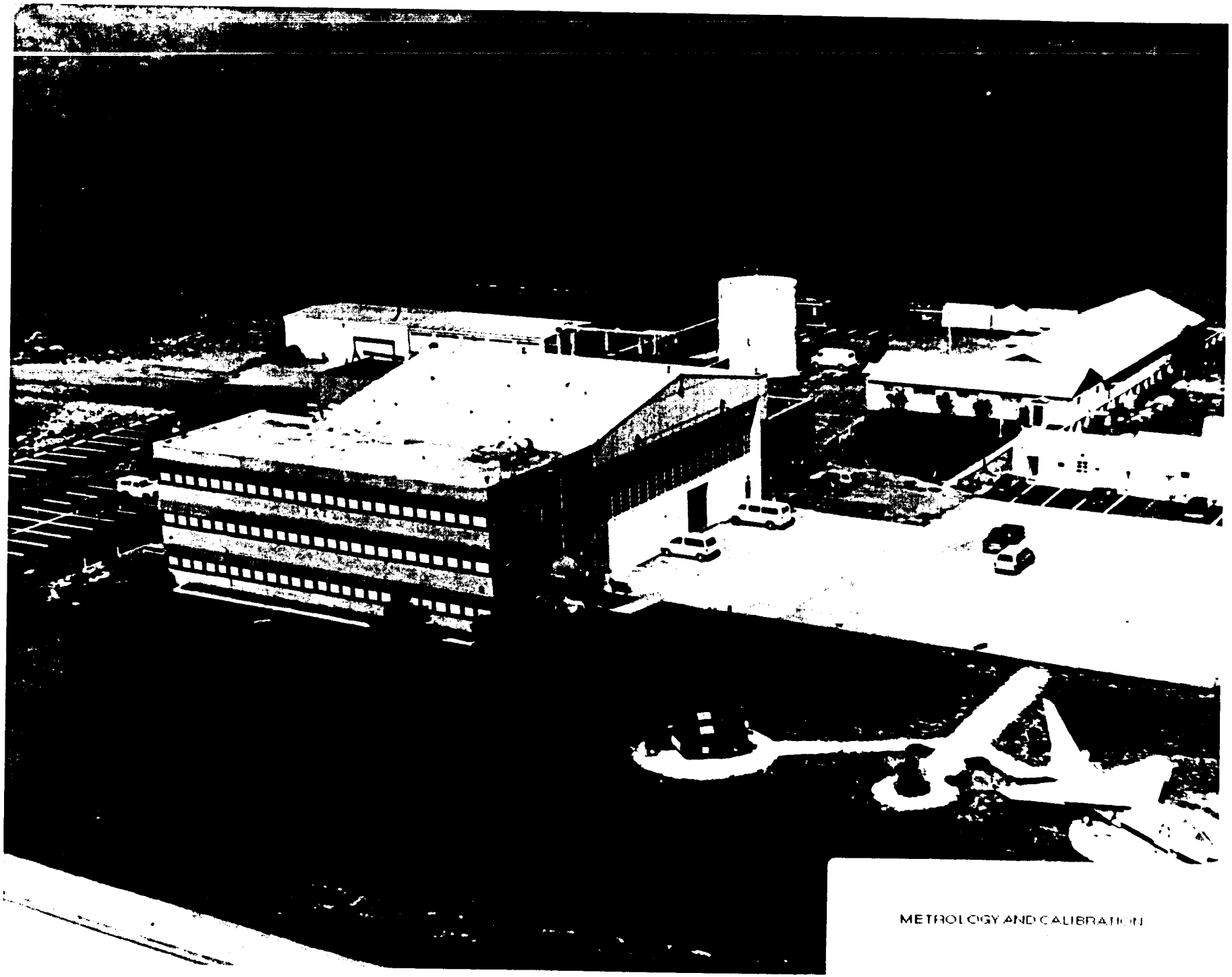
FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. What is the approximate number of personnel needed to maintain the equipment?

1 person

15. Provide on 8 1/2 x 11 black and white photo of the facility/equipment.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



METROLOGY AND CALIBRATION

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Data Handling and Signal Processing Equipment

1. State the primary purpose(s) of the facility/equipment.

The Data Handling Center (DHC) is a facility for manipulating and archiving recorded ground-base and telemetry data. Its mission to house long-term archival data and conduct off-line processing has remained relatively constant since the early 60s.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

Moveable

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The replacement value for this equipment is $881.4 K.

4. Provide the gross weight and cube of the facility/equipment.

The gross weight of this equipment is 4500 pounds. The volume is 300 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

None

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Special budget requirements include provisions for security features. These features include white noise system for acoustic countermeasures, perimeter fence for physical security and cipher and combination locks for restricted access.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

The instrumentation and Data Handling Equipment needs the following environmental controls:

Operating Temperature Range: 65°F to 80°F
Relative Humidity: 50% +/- 10% R.H.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another sire and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Equipment used to reproduce archived data is highly specialized and customized. Newer data is archived in computer form and requires specific software for reproduction. It is difficult to replicate this facility based on these facts. Relocation adversely impacts the organization's ability to respond to mission critical problems such as catapult launch problems on board ship.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The current DHC was occupied in January 1981 and was transported from a nearby structure on the grounds of NAWCADLKE. The move was made as a strategic step to centrally locate the DHC amongst the various Lakehurst based evaluation sites and to provide increased security. The facility was constructed with a raised floor, extensive electrical distribution, acoustic security systems, environmental control systems and filtered telecommunication lines within a corrugated steel structure.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.2

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

The average utilization is 29%. The definition is 100% utilization is equal to all replacement value equipment operating 8 hours/day, 5 days/week, 52 weeks/year.

12. Provide the projected utilization data out to FY1997.

The projected utilization through FY1997 is 47%.

13. What is the approximate number of personnel used to operate the facility/equipment?

Typical manning of the DHC is one instrumentation technician.

14. What is the approximate number of personnel needed to maintain the equipment?

There are two maintenance personnel required to conduct periodic, preventative and repair maintenance. The work effort results in 1/4 man-year of effort.

15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

DATA HANDLING AND SIGNAL PROCESSING EQUIPMENT

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	Landing Guidance Developmental Facility

1. State the primary purpose(s) of the facility/equipment.

To develop advanced landing guidance and simulate performance with advanced hardware and man in the loop.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

Moveable.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Hardware replacement cost: $5,000,000
Building/utilities: $ 300,000

4. Provide the gross weight and cube of the facility/equipment.

50,000 pounds
75,000 pounds

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

None.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

68 degrees F; 20% Relative Humidity

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another sire and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Equipment could be moved. Similar hardware currently exists at NAS Oceana but is dedicated to the training of Fleet Landing Signal Officers. No commercial capability exists.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The facility was commercially moved from NAS Miramar to NAWCADLKE during FY93 and installed under RDT&E program funds.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1. Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

New facility. No past history.

12. Provide the projected utilization data out to FY1997.

35% of capability per year.

13. What is the approximate number of personnel used to operate the facility/equipment?

Two.

14. What is the approximate number of personnel needed to maintain the equipment?

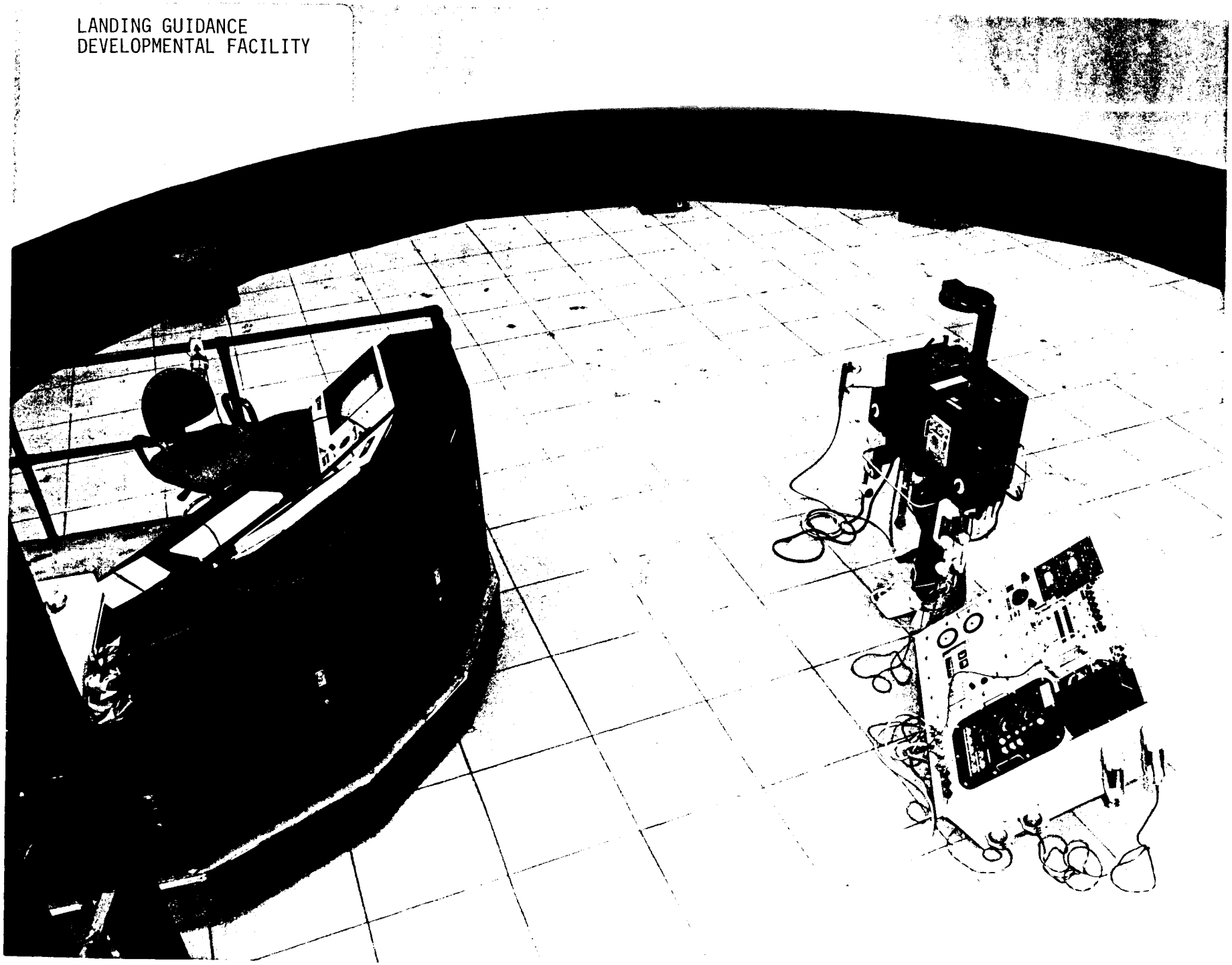
Two.

15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Attached

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

LANDING GUIDANCE
DEVELOPMENTAL FACILITY



Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment Nomenclature or Title	CNC Turning Center TAG# 000537 ; Machine ID# 311

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Low Loss Launch Valve Components**
- **b) Catapult Components**
- **c) Arresting Gear Components**
- **d) Visual Landing Aid Components**
- **e) Support Equipment Components**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Giddings and Lewis CNC Turning Center had an original acquisition cost of $236,558.00 in 1979 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $556,738.00 (Reference: Department of Defense Deflator list). NAWCADLKE Equipment / Procurement Specialists are in agreement with this figure.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 27,000 Lbs. Cube (LxWxH): 20ft x 8ft x 7ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for a replacement of this piece of equipment is approximately $180,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This machining cell equipment is primarily used in the manufacture of the arresting cable terminal ends. It is a part of NAWCADLKE's Cross Deck Pendant production capability. The loss of this equipment would result in delay in the delivery of Cross Deck Pendant Cables for the Fleet. NAWCADLKE is currently the sole supplier of this material to the Navy, because of stringent quality requirements and co-location of dynamic testing facility also required for rope acceptance. Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2.5 yrs, which includes the procurement cycle and manufacture time for this equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck, constructed 1988.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 18,415 hrs/5yrs or * 3,683 hrs/yr (R)
This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.
*** NOTE: This equipment was not fully utilized because of excessive down time due to contractor deficiencies.**

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 14,608 hrs/4yrs or 3,652 hrs/yr
This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a CNC Turning Center for medium sized parts. The primary components currently being scheduled for this machine are pitch shafts and pitch roll hubs for Carrier Optical Landing Systems. In addition to this primary workload, it is used on any medium components used in the manufacture and remanufacture of Low Loss Launch Valves, Catapults, Arresting Gear, Visual Landing Aids, and Support Equipment. The loss of this equipment would result in the inability to satisfy material requirements for CV/CVN Landing and Recovery Operations.

NAWCADLKE is the sole activity, government or commercial, that overhauls LLLV's for the Fleet's steam catapults. An interruption in the availability of this equipment would significantly and detrimentally affect NAWCADLKE's LLLV overhaul schedule. This would eventually have the effect of substantially lowering, if not fully depleting, the inventory of spare LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO and the Fleet has historically been an area of concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO system at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2 yrs, which includes the procurement cycle and manufacture time for this piece of equipment.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by contracting of leadtimes.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Giddings and Lewis, installed 1979.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 4,490 hrs/5yrs or 898 hrs/yr.

This historical data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993. The actual utilization data for the past 6 months was printed out and the historical data was extrapolated based on an assumed flat production cycle over the past 5 years.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 3,584 hrs/2yrs or 1,792 hrs/yr.

This projection is made from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which schedules work 3 months prior to introduction to the shop floor

(3 month projection). The future workload is assumed to be flat based on this 3 month projection.

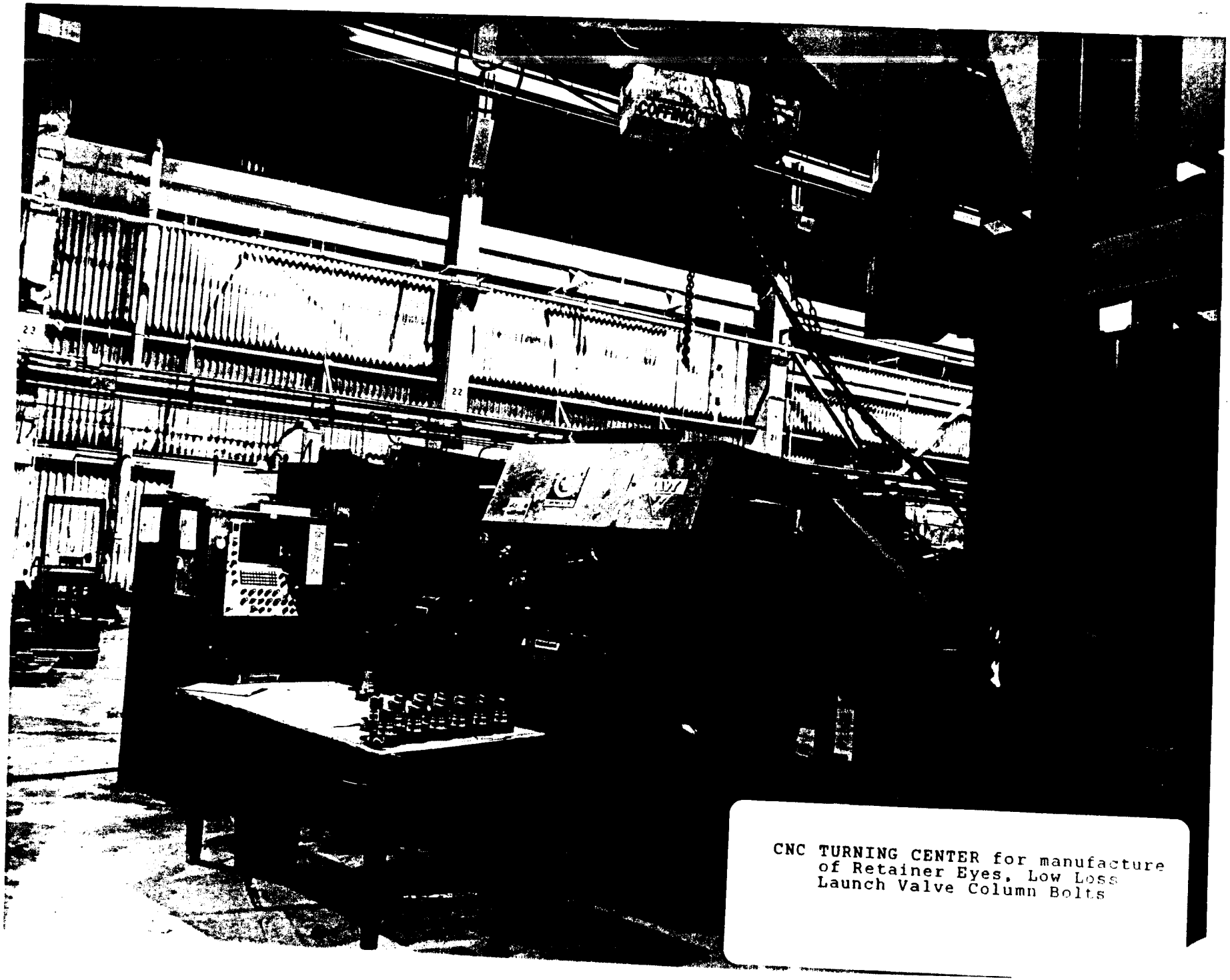
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



CNC TURNING CENTER for manufacture of Retainer Eyes, Low Loss Launch Valve Column Bolts

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Horizontal Boring/Milling Machine
Nomenclature or Title	TAG# 002741 ; Machine ID# 121

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Low Loss Launch Valve (LLLV) Main Body
b) LLLV Steam Head

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost seperate from any building and utilities that may be integral to the facility/equipment.

This Giddings & Lewis horizontal milling machine has an original acquisition cost of $534,736.00 in 1987 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $694,552.00. (Reference: Department of Defense Deflator list). The NAWCADLKE Equipment / Procurement Specialists estimate the cost of replacement to be approximately $870,000.00 for the machine, $116,000.00 for the tooling, and $180,000.00 for foundation replication. (Total: $1,166,000.00 ; which is based on known CNC equipment costs from a pre-procurement analysis done at Lakehurst in 1993).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 20,000 Lbs. **Cube (LxWxH): 26ft x 28ft x 15ft**

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for this equipment is approximately $180,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is an essential apparatus used in the production or overhaul of critical Aircraft Platform Interface (API) components, specifically Low Loss Launch Valves (LLLVs). Lakehurst is solely responsible for providing refurbished LLLVs to the Fleet. There is one LLLV per catapult and there are up to four catapults per carrier depending on the specific vessel. Prohibitive cost and problems with the cast valve plug from commercial suppliers has accentuated the critical need for the NAVY maintaining the capability of repairing these mission sensitive components. The loss of this equipment would result in the interruption of primary LLLV components including the Main Valve Case Bodies and the Steam Heads. Estimation of the time needed for relocation and setup of this equipment is 12 months. Estimation of the time needed to replicate this equipment is 30 months, which includes the procurement cycle and the design and manufacture time for this specialized piece of equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck / Constructed 1987.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include:
1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 5,310 hrs/5yrs or 1,062 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS). Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 13,312 hr/4yrs or 3,328 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

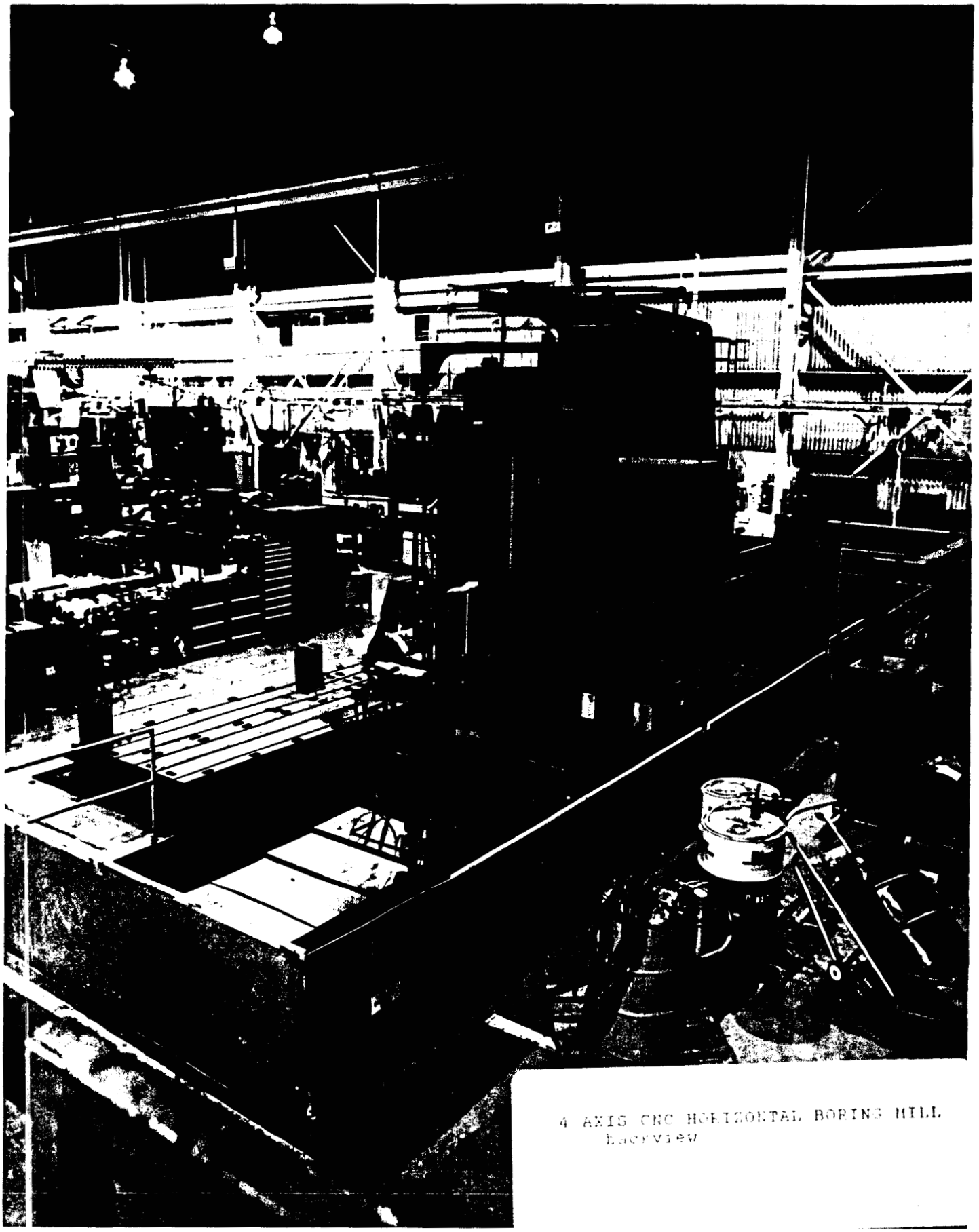
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

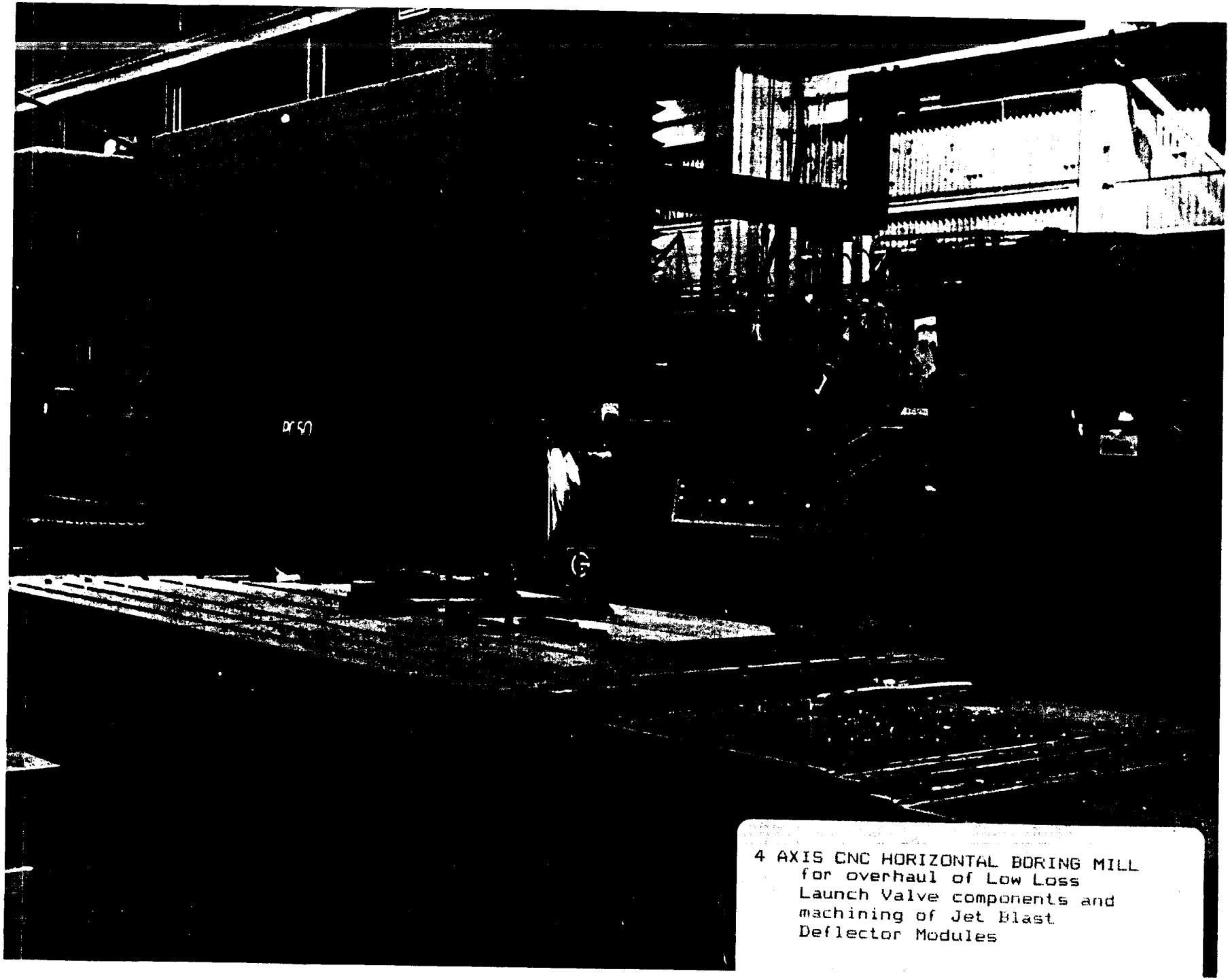
14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

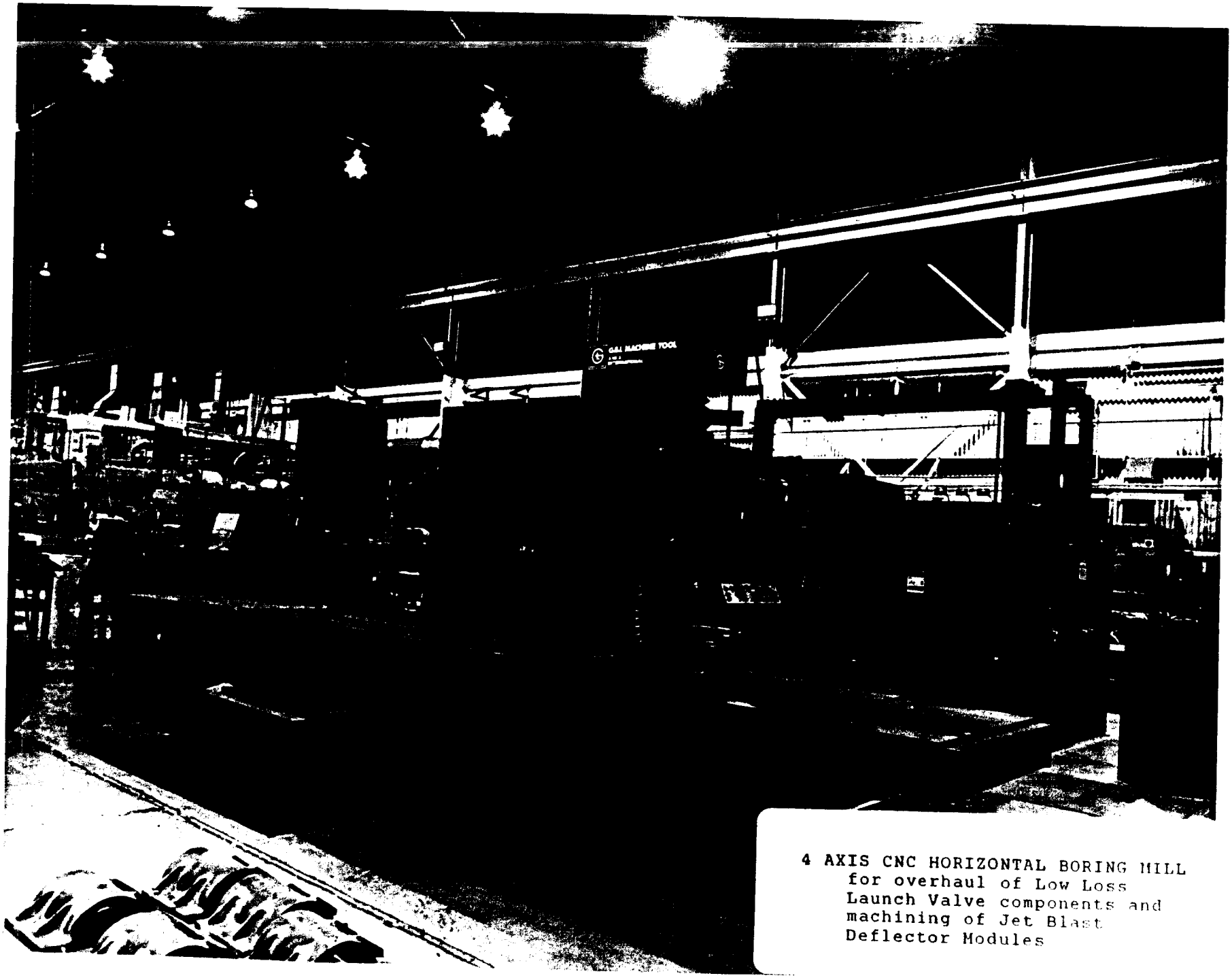
FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



4 AXIS CNC HORIZONTAL BORING MILL
Eastview



4 AXIS CNC HORIZONTAL BORING MILL
for overhaul of Low Loss
Launch Valve components and
machining of Jet Blast
Deflector Modules



4 AXIS CNC HORIZONTAL BORING MILL
for overhaul of Low Loss
Launch Valve components and
machining of Jet Blast
Deflector Modules

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Automated Machining Cell
Nomenclature or Title	TAG# 002742 ; Machine ID# 861-876

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Arresting Cable Terminal Ends

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Drake Manufacturing Machining Cell had an original acquisition cost of $1,044,695.00 in 1988 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $1,317,396.00 (Reference: Department of Defense Deflator list). The NAWCADLKE Equipment / Procurement Specialists estimate the cost of replacement at approximately $1,500,000.00 for the machine and $156,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: 25,000 Lbs. **Cube (LxWxH): 20ft x 20ft x 8ft**

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. ndicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for this equipment is approximately $156,000.00. The basis of this estimate is per 1988 installation costs.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This machining cell equipment is primarily used in the manufacture of the arresting cable terminal ends. It is a part of NAWCADLKE's Cross Deck Pendant production capability. The loss of this equipment would result in delay in the delivery of Cross Deck Pendant Cables for the Fleet. NAWCADLKE is currently the sole supplier of this material to the Navy, because of stringent quality requirements and co-location of dynamic testing facility also required for rope acceptance. Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2.5 yrs, which includes the procurement cycle and manufacture time for this equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck, constructed 1988.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 3,900 hrs/5yrs or * 780 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

*** NOTE: This equipment was not fully utilized because of excessive down time due to contractor deficiencies.**

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 14,608 hrs/4yrs or 3,652 hrs/yr

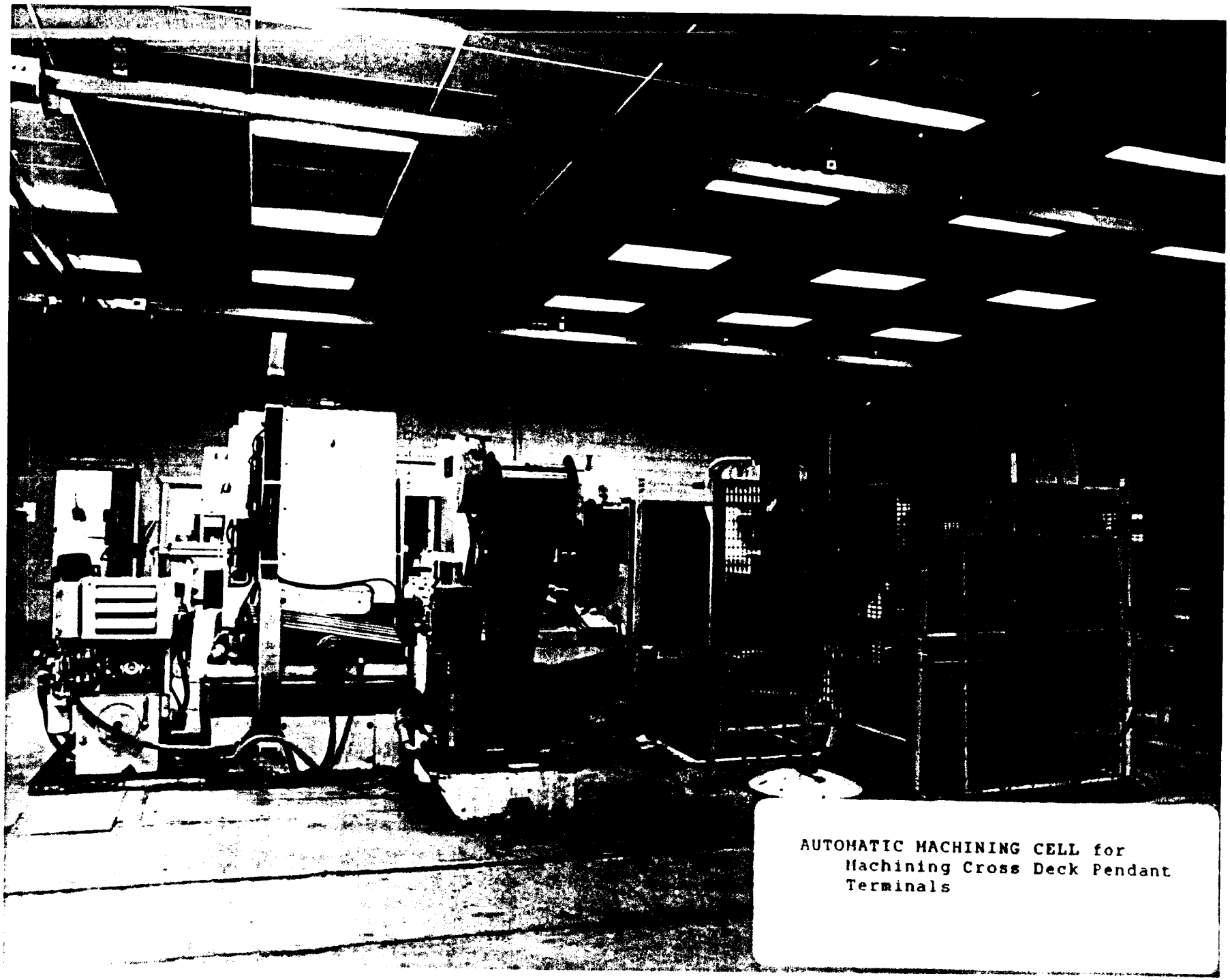
This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.



AUTOMATIC MACHINING CELL for Machining Cross Deck Pendant Terminals

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	650 Ton Punch Press
Nomenclature or Title	TAG# 003717 ; Machine ID# 513

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Jet Blast Deflector Panels
b) Heavy Duty alignment of parts post weld and heat treat

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Baldwin Southwark 650 Ton Punch Press had an original acquisition cost of $38,482.00 in 1941 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $549,743.00 (Reference: Department of Defense Deflator list). This estimate is conservative, in that, NAWCADLKE Equipment / Procurement Specialists put the cost of replacement at approximately $624,000.00 for the machine and $97,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 135,000 Lbs. Cube (LxWxH): 13ft x 9ft x 25ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for a replacement of this piece of equipment is approximately $97,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a 650 ton press for large sized parts. This is a critical item in the manufacturing of Jet Blast Deflector Panels (JBD). In addition to this primary workload, it is used on any large component that needs alignment after weldments or heat treat. The loss of this equipment would result in the interruption of JBD production, these JBD Panels are produced solely at NAWCADLKE. Estimation of the time needed for relocation and setup of this equipment is 1yr. Estimation of the time needed to replicate this equipment is 3yrs, which includes the procurement cycle and the design and manufacture time for this specialized piece of equipment. Tool manufacturers do not sell many presses of this size and therefore, replication will be lengthy and costly.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by the contracting of individual tasks to complete any job order.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, installed 1974 - 1975.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 7,680 hrs/5yrs or 1,536 hrs/yr.

This historical Data is based on producing 24 JBD Pannels this past 6 months. Each JBD goes through the alignment process any where from one to four times, taking an average of two times. Each alignment process takes 16 hours to perform time includes setup and dismount. This actual utilization data for the past 6 months was used to estimate the historical data which was extrapolated based on an assumed flat production cycle over the past 5 years.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 3,072 hrs/2yrs or 1,536 hrs/yr.

This projection is made from the actual data used in production of JBD pannels for the past 6 months. The future workload is assumed to be flat, based on this 6 month projection.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

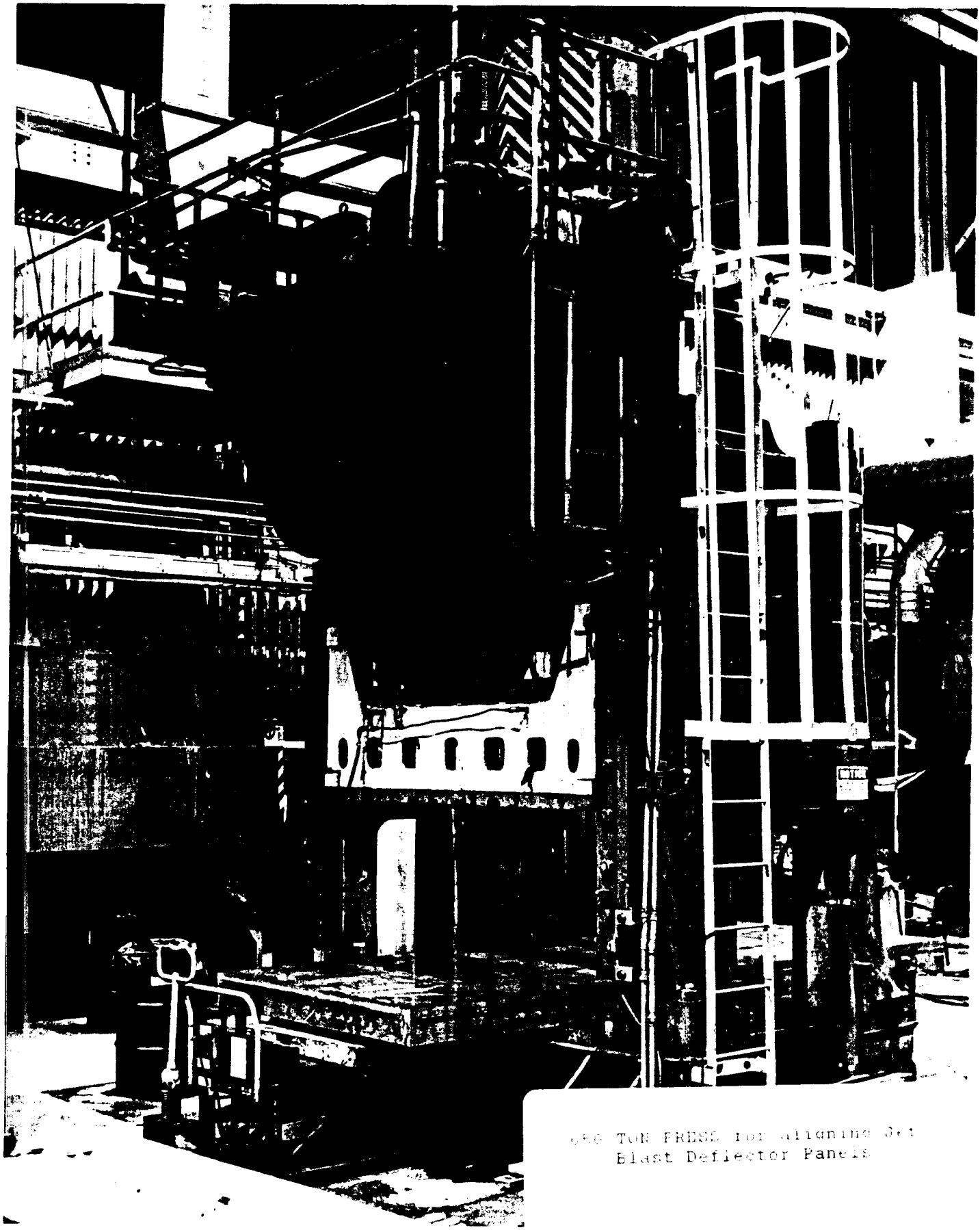
13. What is the approximate number of personnel used to operate the facility/equipment.

Two per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



650 TON PRESS for Aligning Jet
Blast Deflector Panels

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Vertical Milling Machine
Nomenclature or Title	TAG# 006342 ; Machine ID# 122

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Low Loss Launch Valve Components**
- **b) Jet Blast Deflector Modules**
- **c) Catapult Components**
- **d) Arresting Gear Components**
- **e) Visual landing aid components**
- **f) Support Equipment Components**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Kingsbury Vertical Milling Machine had an original acquisition cost of $299,500.00 in 1987 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $389,012.00 (Reference: Department of Defense Deflator list). NAWCADLKE Equipment / Procurement Specialists coordinating with Kingsbury Machine Tool Co. put the cost of replacement at approximately $400,000.00 for the machine and $100,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 35,000 Lbs. Cube (LxWxH): 14ft x 20ft x 18ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for a replacement of this piece of equipment is approximately $100,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a vertical CNC machining center for medium sized parts. This is a critical item in the manufacture of close tolerance Low Loss Launch Valve (LLLV) components, such as the plate head and frame. In addition to this primary workload, the Kingsbury vertical CNC machining center is used on various medium sized components used in the manufacture and remanufacture of Jet Blast Deflector Modules, Catapults, Arresting Gear, Visual Landing Aids, and Support Equipment. The machine features the ability to perform multiple operations using just one setup. It is CNC capable giving it the capability to perform circular interpolations as well as store programs for cyclic work.

NAWCADLKE is the sole activity, government or commercial, that manufactures JBD's and overhauls LLLV's for the Fleet's steam catapults. An interruption in the availability of this equipment would significantly and detrimentally affect NAWCADLKE's JBD production and LLLV overhaul schedule. This would eventually have the effect of substantially lowering, if not fully depleting, the inventory of LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO and the Fleet has historically been an area of concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO system at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by the contracting of individual tasks to complete any job order.

Estimation of the time needed for replication and/or relocation and setup of this equipment is 1yr.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Kingsbury Machine Tool Co., constructed and installed 1987.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 11,590 hrs/5yrs or 2,318hrs/yr.

This historical data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS).

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 5,372 hrs/2yrs or 2,686hrs/yr.

This projection is made from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which schedules work 3 months prior to introduction to the shop floor

(3 month projection). The future workload is assumed to be flat based on this 3 month projection.

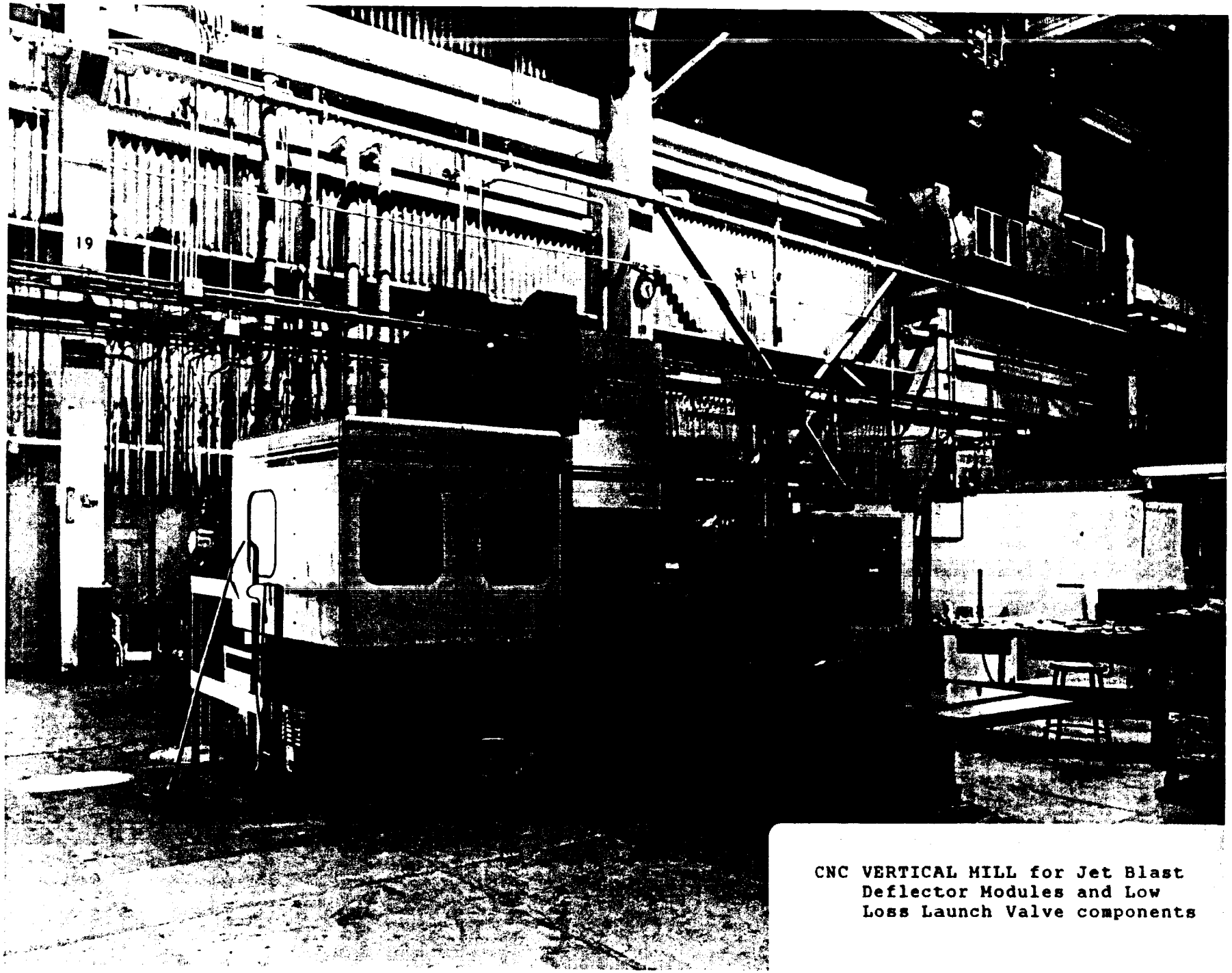
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



CNC VERTICAL MILL for Jet Blast Deflector Modules and Low Loss Launch Valve components

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Horizontal Milling Machine CNC
Nomenclature or Title	TAG# 006346 ; Machine ID# 123

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Low Loss Launch Valve Components**
- **b) Jet Blast Deflector Modules**
- **c) Catapult Components**
- **d) Arresting Gear Components**
- **e) Visual landing aid components**
- **f) Support Equipment Components**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Cincinnati Milacron Horizontal Milling Machine had an original acquisition cost of $337,447.00 in 1987 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $438,300.00 (Reference: Department of Defense Deflator list). NAWCADLKE Equipment / Procurement Specialists put the cost of replacement at approximately $595,000.00 for the machine and $110,000.00 for the foundation, based on similar machine costs.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 35,000 Lbs. Cube (LxWxH): 16ft x 12ft x 12ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for a replacement of this piece of equipment is approximately $110,000.00.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a horizontal CNC machining center for medium sized parts. This is a critical item in the manufacturing of close tolerance Low Loss Launch Valve (LLLV) components, such as the plate head and frame. In addition to this primary workload, the Cincinnati Milacron horizontal CNC machining center is used on various medium sized components used in the manufacture and remanufacture of Jet Blast Deflector Modules, Catapults, Arresting Gear, Visual Landing Aids, and Support Equipment. The machine features the ability to perform multiple operations using just one setup. It is CNC capable giving it the capability to perform circular interpolations as well as store programs for cyclic work.

This machine is an integral part of NAWCADLKE's JBD and LLLV production capabilities. NAWCADLKE is the sole activity, government or commercial, that overhauls JBD and LLLV's for the Fleet's steam catapults. An interruption in the availability of this equipment would significantly and detrimentally affect NAWCADLKE's JBD and LLLV overhaul schedule. This would eventually have the effect of substantially lowering, if not fully depleting, the inventory of spare and LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO and the Fleet has historically been an area of concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO system at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by the contracting of individual tasks to complete any job order.

Estimation of the time needed for replication and/or relocation and setup of this equipment is 1yr.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Cincinnati Milacron, constructed and installed 1987.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 4,870 hrs/5yrs or 974 hrs/yr.

This historical data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS).

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 2,204 hrs/2yrs or 1,102 hrs/yr.

This projection is made from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which schedules work 3 months prior to introduction to the shop floor

(3 month projection). The future workload is assumed to be flat based on this 3 month projection.

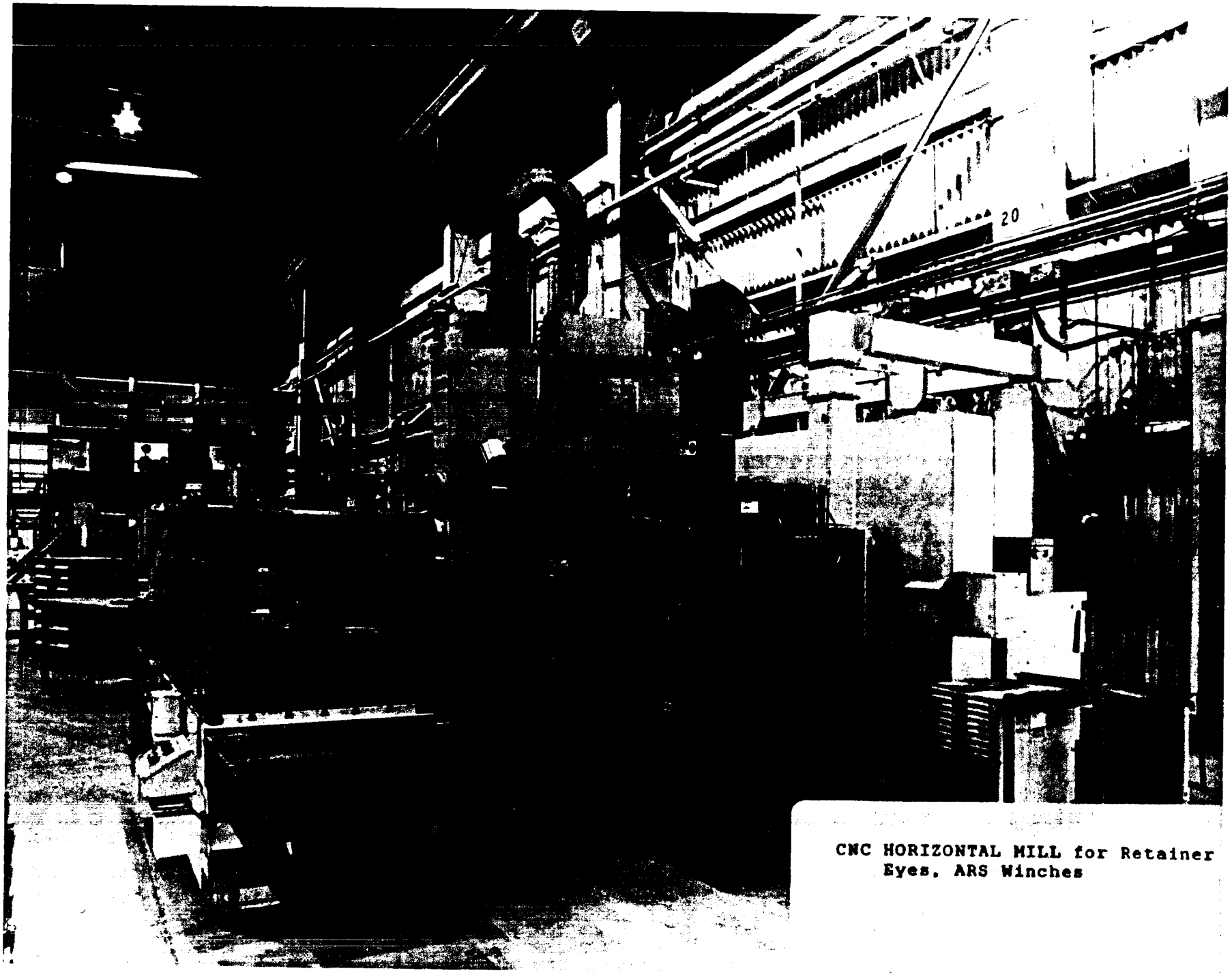
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



CNC HORIZONTAL MILL for Retainer Eyes, ARS Winches

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Boring Milling Traveling Column
Nomenclature or Title	TAG# 006383 ; Machine ID# 271

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Launch Power Cylinder**
- **b) Low Loss Launch Valve Body**
- **c) Low Loss Launch Valve Steam Head**
- **d) A/C Jack Tester Stands**
- **e) JBD Panel Weldments**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Cincinnati Gilbert Machining Center had an original acquisition cost of $886,664.00 in 1987 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $1,122,502.00 (Reference: Department of Defense Deflator list). The NAWCADLKE Equipment / Procurement Specialists estimate the cost of replacement at approximately $1,200,000.00 for the machine and $235,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: 41,500 Lbs. **Cube (LxWxH): 52ft x 20ft x 15ft**

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for this equipment is approximately $235,000.00. The basis of this estimate is per 1987 installation costs.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This machining center equipment is used in the repair of Launch Power Cylinders, Low Loss Launch Valve (LLLV) Bodies, LLLV Steam Heads, and the production of A/C Jack Tester Stands and Jet Blast Deflector (JBD) Panel Weldments. The loss of this equipment would result in the inability to meet ship schedules for catapult Launch Power Cylinders, of LLLV components and JBD Panel components. All of these items are very critical; the JBD panels and the overhauled LLLV parts are produced solely at Lakehurst (NAWCADLKE); no commercial activity exists which overhauls LLLV's for the Fleet's steam catapults. The overhaul of these LLLV's, by NAWCADLKE, saves significant amounts of money over newly procured parts and also addresses the critical threat of a shortfall in LLLV Plug components. Concerning Launch Power Cylinders, NAWCADLKE and Newport News Shipbuilding are both doing this work as a result of a defaulted commercial contract. Estimation of the time needed to relocate this equipment is 1yr. Estimation of the time needed to replicate this equipment is 2.5yrs, which includes the procurement cycle and the design and manufacture time for this specialized piece of equipment. Tool manufacturers do not sell many of these machines and therefore, replication will be lengthy and costly.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck, constructed 1987.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 16,370 hrs/5yrs or 3,274 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 17,392 hrs/4yrs or 4,348 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13 What is the approximate number of personnel used to operate the facility/equipment.

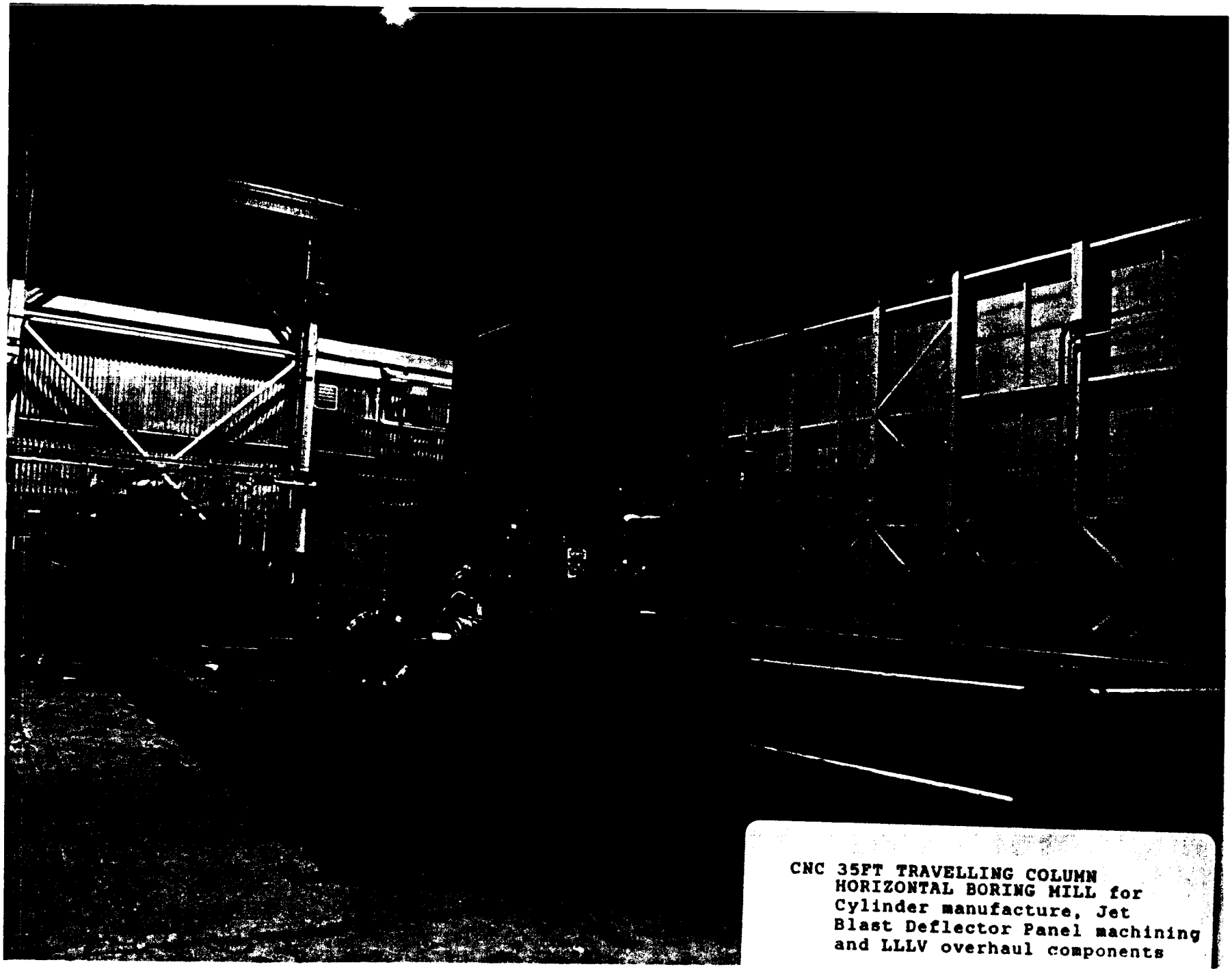
One per shift.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



CNC 35FT TRAVELLING COLUMN
HORIZONTAL BORING MILL for
Cylinder manufacture, Jet
Blast Deflector Panel machining
and LLLV overhaul components

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Milling Machine Planar Type
Nomenclature or Title	TAG# 027344 ; Machine ID# 108

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Jet Blast Deflector Panels
b) Arresting Gear (Sheave Dampers)

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Giddings & Lewis Milling Machine had an original acquisition cost of $346,944.00 in 1954 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $2,462,342.00 (Reference: Department of Defense Deflator list). This estimate is conservative, in that, NAWCADLKE Equipment / Procurement Specialists coordinating with DGSC put the cost of replacement at approximately $4,000,000.00 for the machine and $250,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 180,000 Lbs. Cube (LxWxH): 80ft x 20ft x 25ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for this equipment is approximately $250,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a critical item in the manufacture of large flat precision products, such as the Jet Blast Deflector (JBD) Panels produced at NAWCADLKE. The loss of this equipment would result in the interruption of JBD's, of 12ft long tracks for Sheave Dampers and of Arresting Gear Base components. NAWCADLKE will be supplying JBD Panels for the CVN 76. The estimation of the time needed for relocation and setup of this equipment is 1yr. Estimation of the time needed to replicate this equipment is 3yrs, which includes the procurement cycle and the design and manufacture time for this sizable piece of equipment. Tool manufacturers do not sell many machines of this size and capacity and therefore, replication will be lengthy and costly.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia /
Constructed 1974.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 11,890 hrs/5yrs or 2,378hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS).

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 17,408 hrs/4yrs or 4,352 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

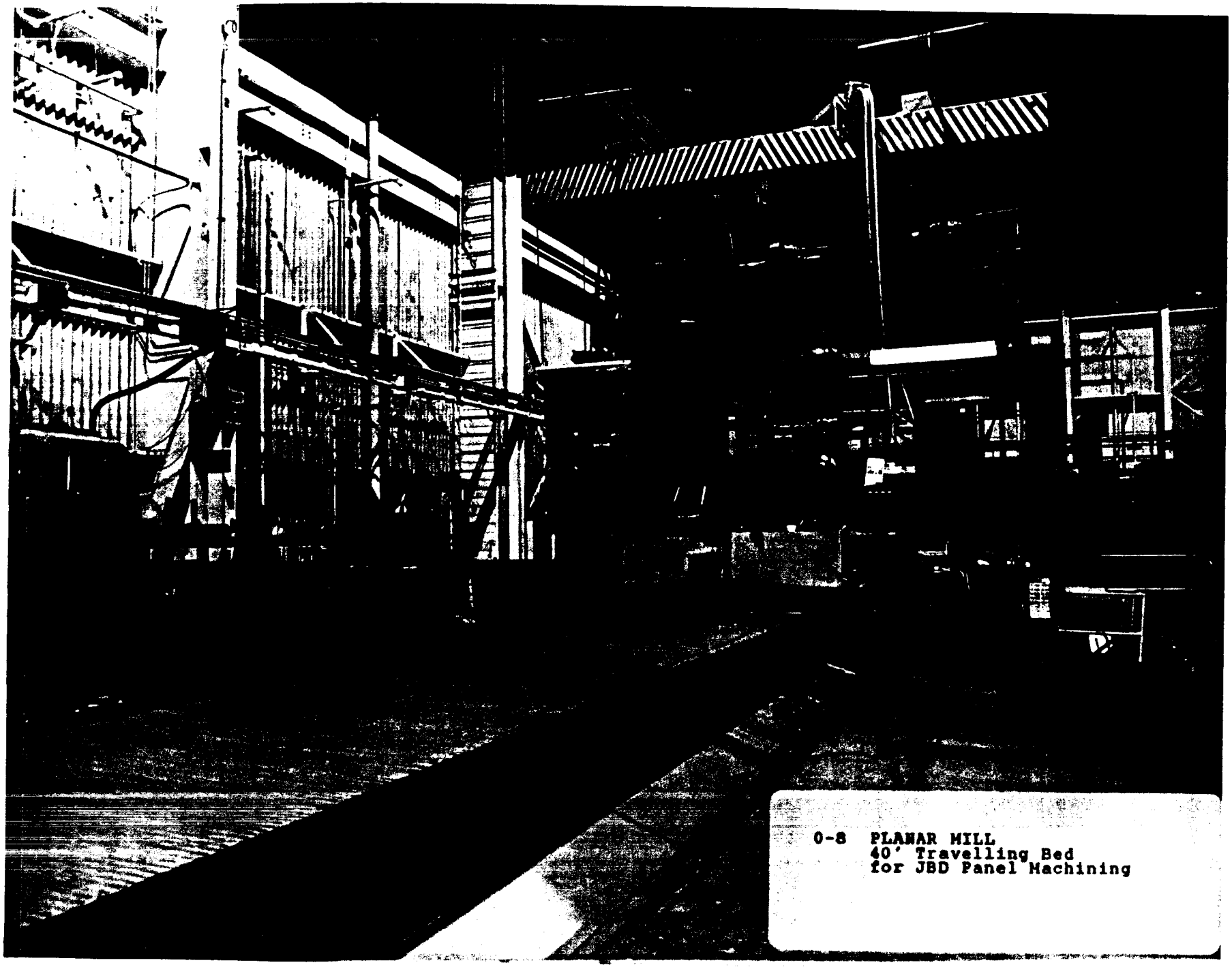
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



0-8 PLANAR MILL
40' Travelling Bed
for JBD Panel Machining

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Power Plant Hydraulic / Hydrostatic Test Cell
Nomenclature or Title	TAG# 034439 ; Machine ID# NONE

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Quality Certification Testing of Hydraulic Components

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Power Plant Hydraulic / Hydrostatic Test Cell had an original acquisition cost of $203,258.00 in 1957 dollars (Includes installation cost). Based on the original purchase price, the adjusted cost, as projected to 1995 dollars, is $1,217,843.00 (Reference: Department of Defense Deflator list). The NAWCADLKE Equipment / Procurement Specialists estimate the cost of replacement at approximately $1,400,000.00 for all of the equipment.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Indeterminate. **Cube (LxWxH): 25ft x 50ft x 20ft**

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

None.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This hydraulic power plant equipment cell is used to hydrostatically test catapult and arresting valves and pumps. The facility is also used for qualification of hydraulic fluids for catapult systems. The loss of this equipment would result in the interruption of quality certification and product verification of these products for the Fleet. Some of these products are mission critical and flaws in the end item could result in significant loss of Navy personnel and property.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2 yrs, which includes the procurement cycle and manufacture time for this custom facility.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, constructed 1974 - 1975.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 2000 hrs/5yrs or 400 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database. This utilization data was an estimate, this equipment is part of a bigger test cell in the cable shop and it does not have a specific machine ID# in MPCS. (R)

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 1600 hrs/4yrs or 400 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This hydraulic power plant equipment cell is used to hydrostatically test catapult and arresting valves and pumps. The facility is also used for qualification of hydraulic fluids for catapult systems. The loss of this equipment would result in the interruption of quality certification and product verification of these products for the Fleet. Some of these products are mission critical and flaws in the end item could result in significant loss of Navy personnel and property.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2 yrs, which includes the procurement cycle and manufacture time for this custom facility.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, constructed 1974 - 1975.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 2000 hrs/5yrs or 400 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 1600 hrs/4yrs or 400 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

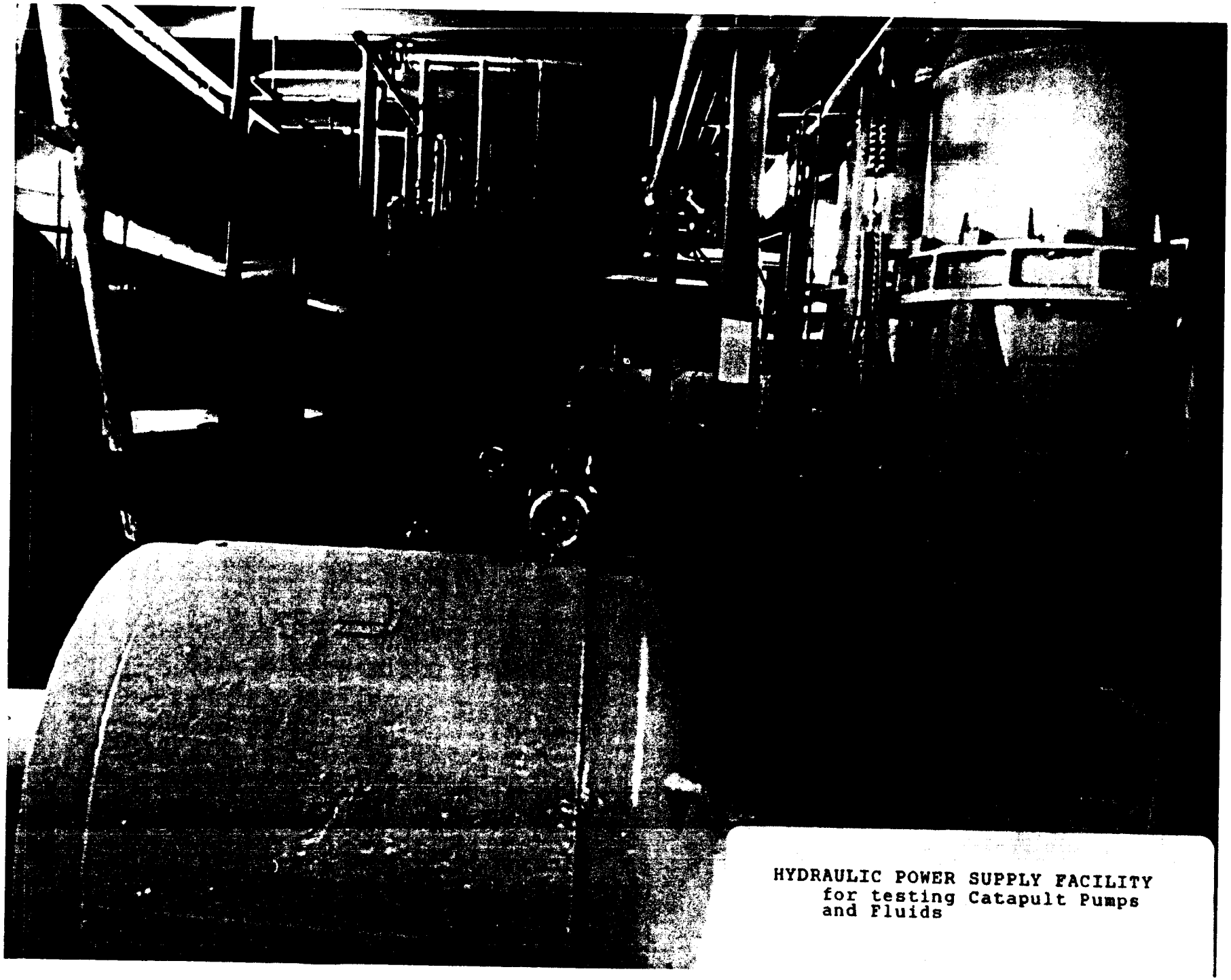
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



HYDRAULIC POWER SUPPLY FACILITY
for testing Catapult Pumps
and Fluids

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Jig Boring & Milling Machine
Nomenclature or Title	TAG# 038479 ; Machine ID# 207

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Arresting Gear - Sheave Covers
b) Arresting Gear - Cylinder Dampener
c) Low Loss Launch Valve Bodies and Components

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost seperate from any building and utilities that may be integral to the facility/equipment.

This De Vliegh Machining, Co. machine had an original acquisition cost of $282,909.00 in 1962 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $1,704,271.00

(Reference: Department of Defense Deflator list). The NAWCADLKE Equipment/Procurement Specialists put the cost of replacement at approximately $1,200,000.00 for the machine and $137,000.00 for the foundation.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 63,000 Lbs. Cube (LxWxH): 17ft x 11ft x 14ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: $137,000

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

NAWCADLKE is the sole activity, government or commercial, that overhauls Low Loss Launch Valves (LLLV) for the Fleet's steam catapults. An interruption in the availability of this machine would detrimentally affect NAWCADLKE's LLLV overhaul schedule. This would eventually have the effect of lowering the inventory of spare LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO has historically been an area of Fleet concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO inventory at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

The unavailability of this machine would also hamper NAWCADLKE's ability to manufacture and/or overhaul several Arresting Gear components, (e.g.: sheave covers, sheave dampers).

Estimate of the time needed for the relocation, foundation work, and setup of this machine is 1.25 yr. Estimate of the time needed to replicate this equipment is 3 yrs, including procurement leadtime and setup.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Moved in sections by flatbed truck from the Philadelphia Naval Shipyard, 1974

10 List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 3,860 hrs/5yrs or 1,287 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 1,184 hrs/4yrs or 296 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

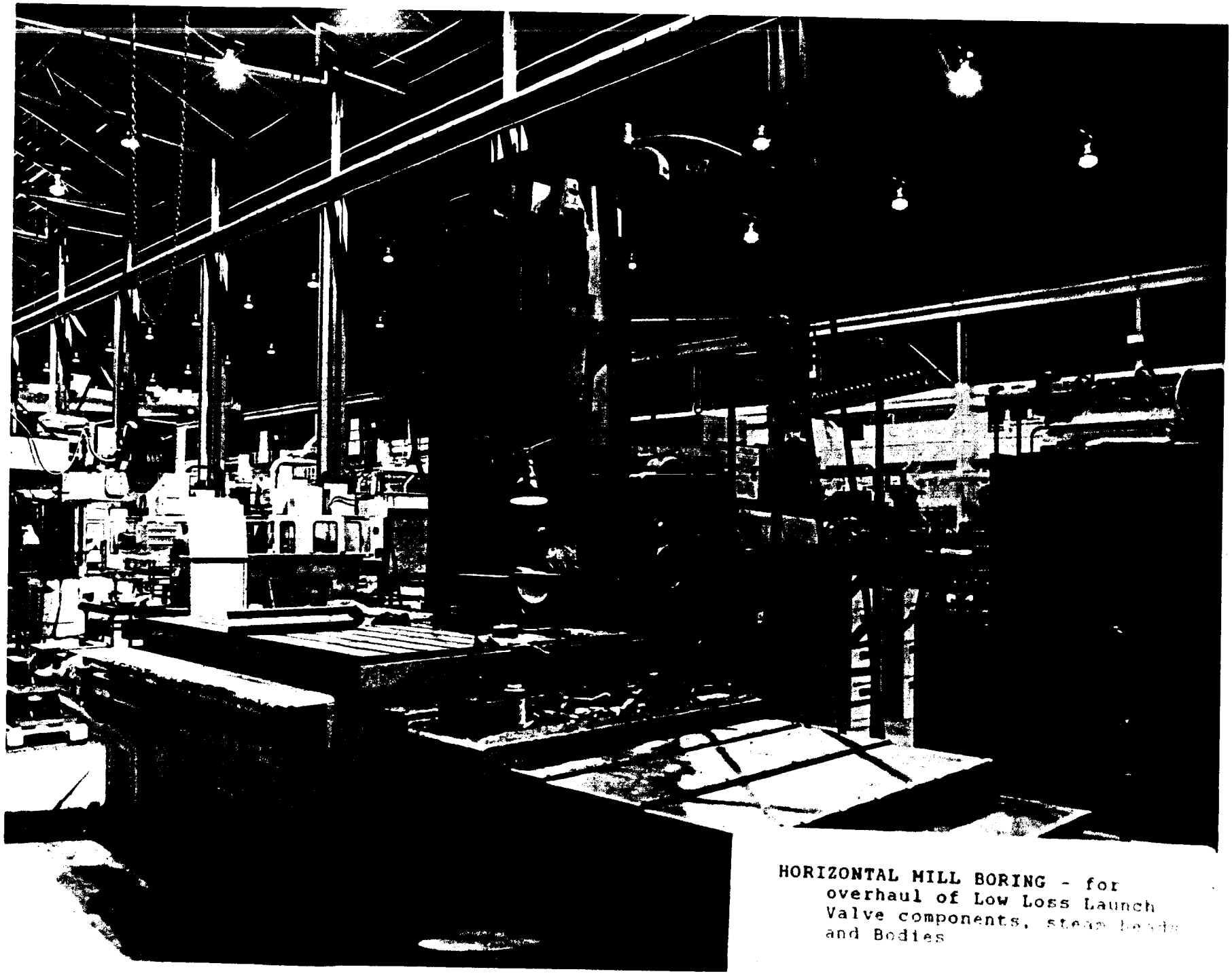
One per shift.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



HORIZONTAL MILL BORING - for overhaul of Low Loss Launch Valve components, steam heads and Bodies

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	5 Axis Horizontal Boring & Milling Machine
Nomenclature or Title	TAG# NA ; Machine ID# NA

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Low Loss Launch Valve Components**
- **b) Jet Blast Deflector Modules**
- **c) Catapult Components**
- **d) Arresting Gear Components**
- **e) Visual landing aid components**
- **f) Support Equipment Components**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Giddings and Lewis 5 Axis Horizontal Boring and Milling Machine had an original acquisition cost of $1,073,888.00 in 1993 dollars (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $1,131,600.00 (Reference: Department of Defense Deflator list). This estimate is in exact agreement with the NAWCADLKE Equipment / Procurement Specialists.

4. Provide the gross weight and cube of the facility/equipment.

Weight: Est. 40,000 Lbs. Cube (LxWxH): 45ft x 25ft x 17ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for a replacement of this piece of equipment is approximately $100,000.00.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This piece of equipment is a 5 axis horizontal boring and milling machine for medium to large sized parts. The primary components currently being scheduled for this machine are the Low Loss Launch Valve body and steam head, and Jet Blast Deflector Modules. In addition to this primary workload, it is used on any medium or large components used in the manufacture and remanufacture of Catapults, Arresting Gear, Visual Landing Aids, and Support Equipment.

This is a CNC system which allows NAWCADLKE's Manufacturing Technology Department to respond to emergency orders quickly. With a CNC capable machine, work can be stopped, the setup and programming saved, new work setup onto the machine and performed, and then the original work can be reloaded onto the machine with little time lost due to minimal setups required.

This machine is an integral part of NAWCADLKE's LLLV production capabilities. NAWCADLKE is the sole activity, government or commercial, that overhauls LLLV's for the Fleet's steam catapults. An interruption in the availability of this equipment would significantly and detrimentally affect NAWCADLKE's LLLV overhaul schedule. This would eventually have the effect of substantially lowering, if not fully depleting, the inventory of spare LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO and the Fleet has historically been an area of concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO system at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 2 yrs, which includes the procurement cycle and the design and manufacture time for this specialized piece of equipment. Tool manufacturers do not sell many machines like this and therefore, replication will be lengthy and costly.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by the contracting of individual tasks to complete any job order.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Giddings and Lewis, constructed 1993 installed 1994.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 531 hrs.

This historical data was collected since the machine has been installed in 1993 from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 17,632 hrs/2yrs or 8,816hrs/yr.

This projection is made from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which schedules work 3 months prior to introduction to the shop floor

(3 month projection). The future workload is assumed to be flat based on this 3 month projection.

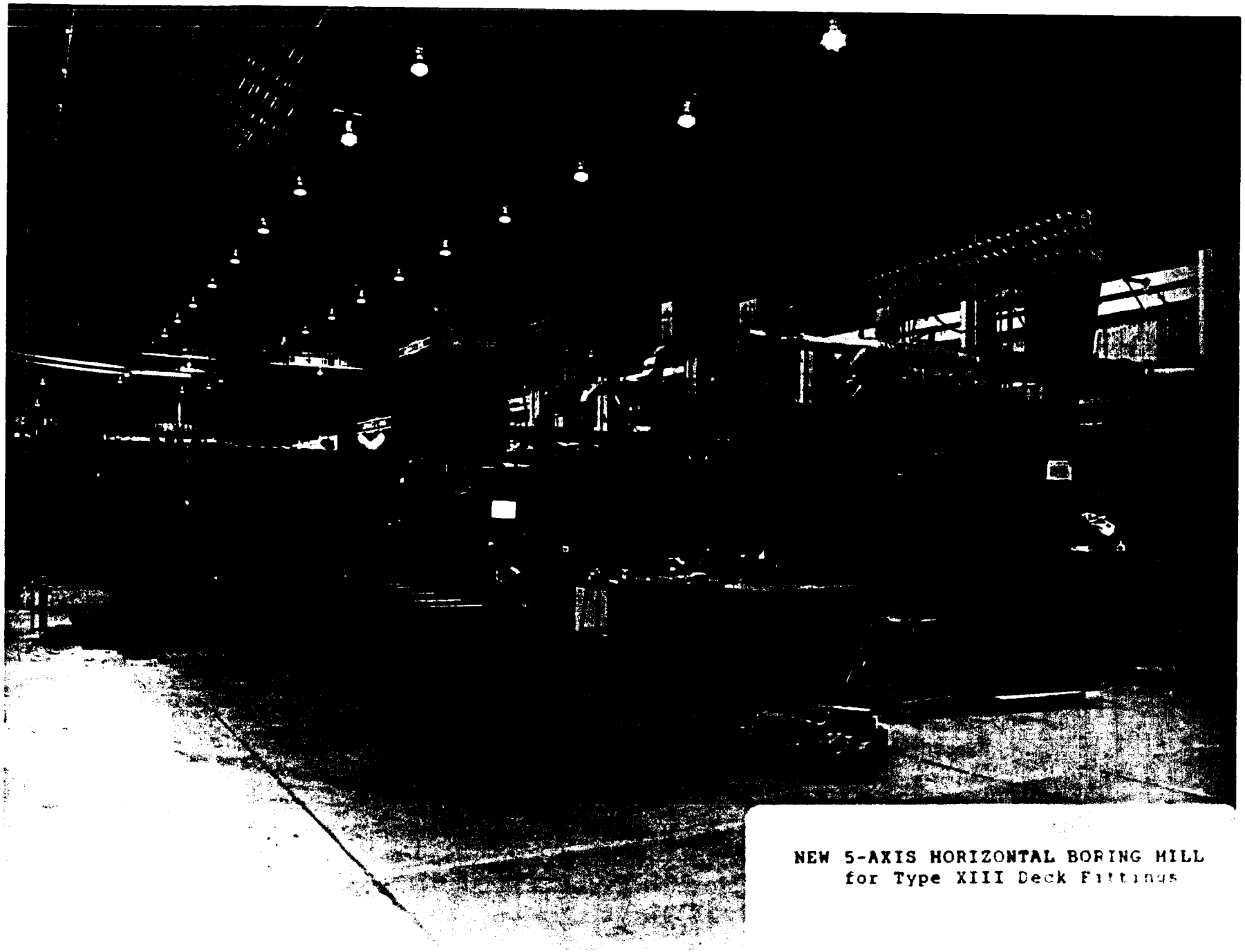
13. What is the approximate number of personnel used to operate the facility/equipment.

One per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



NEW 5-AXIS HORIZONTAL BORING MILL
for Type XIII Deck Fittings

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Heat Treatment/Sandblast Facility
Nomenclature or Title	Bldg #124; Facility Compilation

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
- **a) Low Loss Launch Valve (LLLV) Components**
- **b) Swivel Couplings**
- **c) Cross Deck Pendant Terminals**
- **d) JBD Components**

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost seperate from any building and utilities that may be integral to the facility/equipment.

This Heat Treatment Facility is made up of several principal pieces of equipment including large furnaces, quenching tanks, sandblast cabinets and atmosperic generators. The replacement costs of the equipment alone would be $2,679,126.00 in 1995 dollars (Includes installation cost). (Reference: Department of Defense Deflator list).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Combined Equpiment Weight (approx) - 109,000 lbs
Cube (LxWxH): 160ft x 260ft x 25ft

5. Indicate any special utility support required other than normal electrical power.

A Network of refractory brick "pits" for equipment placement
460 Volt, 3 Phase A.C..
Two (10,000 lb Capacity) Overhead Gantry Cranes
Ultra-Industrial HVAC System (for cooling work areas)
Dust Removal System

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: The estimate for the cost of a new foundation for this facility is approximately $2,600,000.00.

The estimate for an adequate cooling system is $648,000.00

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None, all HVAC equipment is for making workspace habitable.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This facility is essential to the production scheme for all critical Aircraft Platform Interface (API) components, specifically Low Loss Launch Valves (LLLVs), Cross Deck Pendants, and Jet Blast Deflectors. NAWCADLKE is solely responsible for providing the JBD, refurbished LLLV's and Cross Deck Pendant components to the Fleet. The loss of this equipment would result in the interuption of delivery of primary API components to the active aircraft carriers. Estimation of the time needed for relocation and setup of this equipment is 36 months. Estimation of the time needed to replicate this facility is 48 months, which includes the procurement cycle and the design and construction time for this specialized building and site, and the purchase of replacement equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Some equipment was transported via flatbed truck and reinstalled in 1974. Other pieces have been added through procurement.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include:
1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 22,260 hrs/5yrs or 4,452 hrs/yr (R)

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database. This utilization data was an estimate based on MPCS data and manpower (1.5 manyears) combined for the heat treatment facility. (R)

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 24,280 hrs/4yrs or 6,070 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None, all HVAC equipment is for making workspace habitable.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This facility is essential to the production scheme for all critical Aircraft Platform Interface (API) components, specifically Low Loss Launch Valves (LLLVs), Cross Deck Pendants, and Jet Blast Deflectors. NAWCADLKE is solely responsible for providing the JBD, refurbished LLLV's and Cross Deck Pendant components to the Fleet. The loss of this equipment would result in the interuption of delivery of primary API components to the active aircraft carriers. Estimation of the time needed for relocation and setup of this equipment is 36 months. Estimation of the time needed to replicate this facility is 48 months, which includes the procurement cycle and the design and construction time for this specialized building and site, and the purchase of replacement equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Some equipment was transported via flatbed truck and reinstalled in 1974. Other pieces have been added through procurement.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include:
1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 24,960 hrs/5yrs or 4,992 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 24,280 hrs/4yrs or 6,070 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

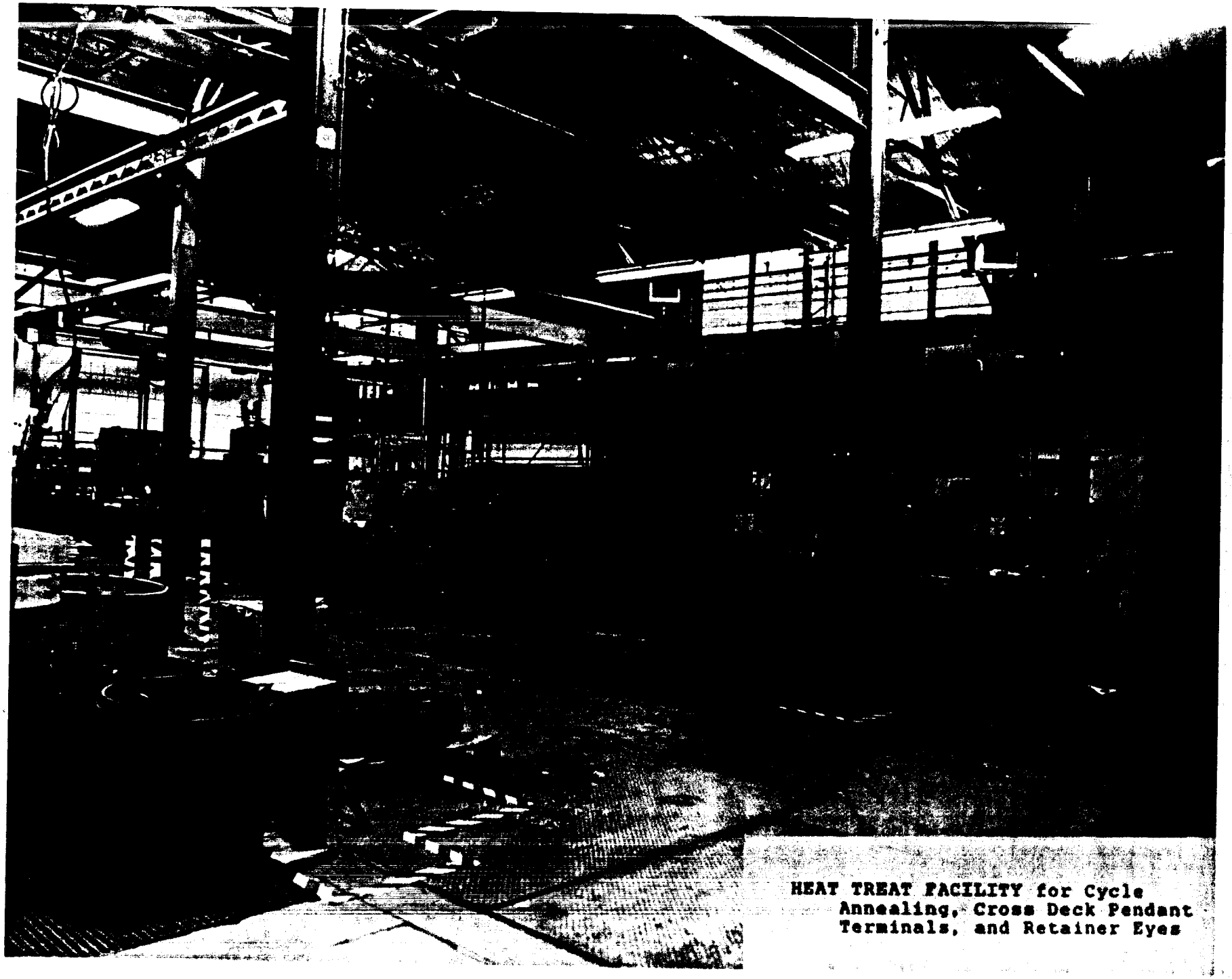
13. What is the approximate number of personnel used to operate the facility/equipment.

Three persons per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Two Specialists (Electrician, & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



HEAT TREAT FACILITY for Cycle Annealing, Cross Deck Pendant Terminals, and Retainer Eyes

HEAT TREAT FACILITY
Standard Pots

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment	JBD Machining and Welding Cells
Nomenclature or Title	Bldg #148; Product Based Compilation

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Jet Blast Deflector Panels

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This product area within the NAWCADLKE Manufacturing Technology Department facilities is dedicated to the manufacture of Jet Blast Deflector Panels for the Navy Carrier Fleet. The work cells consist of several principal pieces of equipment including a dedicated facility (Bldg. 99) with large positioning platforms and MIG welding equipment, (Bldg. 148) the 650 ton punch press, the planar milling machine, and a vibrating stress relief machine. Some JBD Panel components are also sent through our heat treat facility and processed on various other milling machines in the shop; however, the heat treat facility, the utility machining equipment and the overhead cranes to transport this large product are being considered as separate facility equipment cells in this analysis and they will not be included in this discussion. The replacement costs of the dedicated equipment alone would be $5,364,366.00 in 1995 dollars (Includes installation and facility cost). (Reference: Department of Defense Deflator list).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Indeterminate
Cube (LxWxH): (Bldg.148) - 230ft x 140ft x 25ft
(Bldg.099) - 100ft x 30ft x 25ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation: Within this product based group of equipment the 650 ton press requires a foundation which has an estimated replacement cost of $97,000.00; the Giddings & Lewis Planar Type Milling Machine requires a foundation which has an estimated replacement cost of $250,000.00.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

These facilities are essential to the production of all Jet Blast Deflector Panel components to meet NAWCADLKE Aircraft Platform Interface (API) mission requirements. NAWCADLKE is solely responsible for providing the JBD Panels to the Fleet. The loss of this equipment would result in the interruption of delivery of these primary API components to the active carriers. Estimation of the time needed for relocation and setup of this facility and equipment is 1yr (excluding the building). Estimation of the time needed to replicate this facility and equipment is 2.5yrs, which includes the procurement cycle and the design and construction time for this specialized building and site, and the purchase of replacement equipment.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Some equipment was transported via flatbed truck from PNSY and reinstalled in 1974. Other pieces have been added through procurement.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include:
1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 38,870 hrs/5yrs or 7,774 hrs/yr
(Aggregate of all machinery)

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 47,320 hrs/4yrs or 11,830 hrs/yr
(Aggregate of all machinery)

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

Five persons per shift .

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Low-Loss Launch Valve (LLLV) Rework and Test Cells
Nomenclature or Title	TAG# 004872 ; Machine ID# 316 TAG# 002664 ; Machine ID# 115 TAG# 005531 ; Machine ID# 602 TAG# 005201 ; Machine ID# 627 TAG# 002741 ; Machine ID# 121 TAG# 006342 ; Machine ID# 122

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Low Loss Launch Valve body and plug seat overhaul

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

The Low Loss Launch Valve (LLLV) Body/Plug Rework and Test Cells consist of several principal pieces of equipment including: a King vertical turret lathe, a LeBlonde heavy duty engine lathe, two Norton grinders, a Giddings & Lewis Horizontal Boring and Milling Machine and a Kingsbury Vertical Milling Machine. Some of the LLLV components are also sent through our heat treat facility and processed on various other milling machines in the shop; however, the heat treat facility, the various utility machining equipment and the overhead cranes to transport this large product are being considered as separate facility equipment in this analysis and they will not be included in this discussion. The replacement costs of the dedicated equipment alone would be $3,141,470.00 in 1995 dollars (Includes installation and facility cost). (Reference: Department of Defense Deflator list).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Combined Equipment Est. 190,000 Lbs.
Cube (LxWxH): 150ft x 150ft x 25ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundation:Special foundation/footing needed for King VTL;estimated cost - $166,500; for Giddings & Lewis Horizontal Boring and Milling Machine - $180,000; for Kingsbury Vertical Milling Machine - $140,000; Total - $486,500.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

NAWCADLKE is the sole activity, government or commercial, that overhauls Low Loss Launch Valves (LLLV) for the Fleet's steam catapults. An interruption in the availability of this LLLV cell equipment would significantly and detrimentally affect NAWCADLKE's LLLV overhaul schedule. This would eventually have the effect of substantially lowering, if not fully depleting, the inventory of spare LLLV's available to the Fleet. Availability of an adequate quantity of overhauled LLLV's to ASO and the Fleet has historically been an area of concern. Due to the leadtimes involved in overhauling these items, any lack of overhauled valves in the ASO system at a time of Fleet mobilization could soon lead to limited Carrier launch operational readiness.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck/ the Grinding Cell equipment installed at the current location, Bldg. 148 in 1985; the Giddings & Lewis Horizontal Boring Milling Machine installed in 1987; the Kingsbury Vertical Milling Machine installed in 1987.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 27,020 hrs/5yrs or 5,404 hrs/yr

This utilization data was taken from the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in use since 1992. Prior year information was extrapolated from this database.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997): 33,960 hrs/4yrs or 8,490 hrs/yr

This projection is made from the NAWCADLKE Manufacturing Production and Control System (MPCS) - 3 month advance manufacturing planning data.

13. What is the approximate number of personnel used to operate the facility/equipment.

Four per shift.

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Cross Deck Pendant Manufacturing Ctr
Nomenclature or Title	TAG# 010677 ; Machine ID# TAG# 027824 ; Machine ID# TAG# 041459 ; Machine ID# TAG# 002533 ; Machine ID# TAG# 005684 ; Machine ID# TAG# 005691 ; Machine ID# TAG# 005800 ; Machine ID# TAG# 041100 ; Machine ID# 126 TAG# 041604 ; Machine ID# 127 TAG# 040353 ; Machine ID# 129 TAG# 005533 ; Machine ID# 212 TAG# 000483 ; Machine ID# 310 TAG# 005569 ; Machine ID# 319 TAG# 039360 ; Machine ID# 322 TAG# 005692 ; Machine ID# TAG# 000040 ; Machine ID# 406 TAG# 000028 ; Machine ID# 515 TAG# 000027 ; Machine ID# 516 TAG# Tables ; Machine ID# TAG# 002742 ; Machine ID# 861-876 TAG# 003939 ; Machine ID#

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Production and test of Cross Deck Pendants

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Cross Deck Pendant Manufacturing Center consists of 21 pieces of equipment with a total original acquisition cost of $2,325,377.00 between 1932 and 1987 (Includes installation cost). Based on original purchase prices the adjusted cost, as projected to 1995 dollars, is $4,686,266.00 (Reference: Department of Defense Deflator list).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Indeterminate Cube (LxWxH):300ft x100ft x40ft

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Special Foundations: Requires large dedicated area to house manufacturing center. The estimate for the cost of a new foundation for the Automated Machining Cell is approximately $156,000.00. The basis of this is per the 1988 installation. Foundations for the 100,000 lbs and 300,000 lbs Test Machine are $40,000.00 based on 10% of the purchase price.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The Cross Deck Pendant Center is the only manufacturing line that produces Cross Deck Pendants for the Navy and the Marine Corps. It consists of 21 individual pieces of equipment, one of which has been fabricated here at Lakehurst to specifically perform this task. This assembly line is solely dedicated to production of cross deck pendants at a rate of 570 - 3000 pendants per year, depending upon the level of flight activity in the fleet. The Navy has considered contracting this workload away from Lakehurst in the past, but because of the stringent mission assignment and critical nature of the cross deck pendant to the safety of the pilot, aircraft, and fighting capability of the carrier, it has been determined that only Lakehurst production and testing capability could guarantee the necessary quality and delivery assurance.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 3 yrs, which includes the procurement cycle and manufacture time for this assembly line. This is a customized one of a kind assembly line.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by the contracting of individual tasks to complete any job order.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, installed 1974-1975.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 45,620 hrs/5yrs or 9,124 hrs/yr.

This historical data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993. The actual utilization data for the past 6 months was printed out and the historical data was extrapolated based on an assumed flat production cycle over the past 5 years.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 18,248 hrs/2yrs or 9,124 hrs/yr.

This projected data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993. The actual utilization data for the past 6 months was printed out and the projected data was extrapolated based on flat production cycle over the next 2 years.

The Aviation Supply Office has directed us to assure level requirements through 1997.

13. What is the approximate number of personnel used to operate the facility/equipment.

12 per shift

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

Revised pg UIC N68335

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Arresting Engine Purchase Cable Ctr
Nomenclature or Title	TAG# Cycl Tst ; Machine ID# 1 TAG# Cycl Tst ; Machine ID# 2 TAG# Cycl Tst ; Machine ID# 3 TAG# 5 Sh Cyc ; Machine ID# TAG# 039573 ; Machine ID# TAG# 039574 ; Machine ID# TAG# 041243 ; Machine ID# TAG# 041253 ; Machine ID# TAG# 003402 ; Machine ID# TAG# 008496 ; Machine ID# TAG# 034612 ; Machine ID# TAG# 038443 ; Machine ID# TAG# 017490 ; Machine ID# TAG# 002668 ; Machine ID# TAG# 002669 ; Machine ID# TAG# 002670 ; Machine ID# TAG# 029498 ; Machine ID# (R) TAG# 029501 ; Machine ID# (R) TAG# 038088 ; Machine ID# (R)

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet
a) Production and test of Arresting Engine Purchase Cable

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Arresting Engine Purchase Cable Center consists of 19 pieces of equipment with a total original acquisition cost of $926,016.00 between 1956 and 1987 (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $3,761,528.50 (Reference: Department of Defense Deflator list). (R)

4. Provide the gross weight and cube of the facility/equipment.

Weight: Indeterminate Cube (LxWxH):175ft x70ft x15ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C.

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Arresting Engine Purchase Cable Ctr
Nomenclature or Title	TAG# Cycl Tst ; Machine ID# 1 TAG# Cycl Tst ; Machine ID# 2 TAG# Cycl Tst ; Machine ID# 3 TAG# 5 Sh Cyc ; Machine ID# TAG# 039573 ; Machine ID# TAG# 039574 ; Machine ID# TAG# 041243 ; Machine ID# TAG# 041253 ; Machine ID# TAG# 003402 ; Machine ID# TAG# 008496 ; Machine ID# TAG# 034612 ; Machine ID# TAG# 038443 ; Machine ID# TAG# 017490 ; Machine ID# TAG# 002668 ; Machine ID# TAG# 002669 ; Machine ID# TAG# 002670 ; Machine ID#

1. State the primary purpose of the facility/equipment

Support of the Carrier Fleet:
a) Production and test of Arresting Engine Purchase Cable

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

This Arresting Engine Purchase Cable Center consists of 12 pieces of equipment with a total original acquisition cost of $926,916.00 between 1952 and 1984 (Includes installation cost). Based on this original purchase price the adjusted cost, as projected to 1995 dollars, is $3,788,529.00 (Reference: Department of Defense Deflator list).

4. Provide the gross weight and cube of the facility/equipment.

Weight: Indeterminate Cube (LxWxH):175ft x70ft x15ft

5. Indicate any special utility support required other than normal electrical power.

460 Volt, 3 Phase A.C..

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

No Special Foundations: Requires large dedicated area.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The Arresting Engine Purchase Cable Center is the only test facility for Purchase Cable used for CV/CVN Aircraft Recovery operations. It consists of 19 individual pieces of equipment, four of which have been fabricated here at NAWCADLKE to specifically perform this task. This line is solely dedicated to acceptance testing wire rope for its use as purchase cable in arresting engines. The primary purpose of this facility is to cycle specimens of purchase cable wire that are sent in by manufacturers as a condition of a contract that is let by ASO. The purpose of this is to dynamically test samples of the wire before it is allowed to be shipped from the contractor to an ASO warehouse or stocking location. The number of purchase cable tested are 150 per year. The Navy has attempted to contract this workload away from NAWCADLKE in the past, but because of the stringent mission assignment and critical nature of the purchase cable in the arresting engine to the safety of the pilot, aircraft, and fighting capability of the carrier, it has been determined that the quality control could not be maintained. Relocation, replication, or loss of this customized equipment will result in a loss of this sole product line to the Navy, affecting the number of air operations that can be flown until the line is up and running again. (R)

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 3 yrs, which includes the procurement cycle and manufacture time for this assembly line. This is a customized one of a kind testing line.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by contracting of individual tasks.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, installed 1974-1984.

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

No Special Foundations: Requires large dedicated area.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The Arresting Engine Purchase Cable Center is the only test facility for Purchase Cable used for CV/CVN Aircraft Recovery operations. It consists of 12 individual pieces of equipment, four of which have been fabricated here at NAWCADLKE to specifically perform this task. This line is solely dedicated to acceptance testing wire rope for its use as purchase cable in arresting engines. The primary purpose of this facility is to cycle specimens of purchase cable wire that are sent in by manufacturers as a condition of a contract that is let by ASO. The purpose of this is to dynamically test samples of the wire before it is allowed to be shipped from the contractor to an ASO warehouse or stocking location. The number of purchase cable tested are 150 per year. The Navy has attempted to contract this workload away from NAWCADLKE in the past, but because of the stringent mission assignment and critical nature of the purchase cable in the arresting engine to the safety of the pilot, aircraft, and fighting capability of the carrier, it has been determined that the quality control could not be maintained. Relocation, replication, or loss of this customized equipment will result in a loss of this sole product line to the Navy, affecting the number of air operations that can be flown until the line is up and running again.

Estimation of the time needed for relocation and setup of this equipment is 1 yr. Estimation of the time needed to replicate this equipment is 3 yrs, which includes the procurement cycle and manufacture time for this assembly line. This is a customized one of a kind testing line.

The equipment located at NAWCADLKE Manufacturing Technology Department gives this facility a unique advantage in answering the needs of the NAVY. That is to maintain a self contained facility that can perform work on an as needed or just in time basis to answer any fleet emergency, eliminating the need to add to the lead time of the manufacturing cycle caused by contracting of individual tasks.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Transported via flatbed truck from Philadelphia, installed 1974-1984.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

1.0 Platform
1.2 Aircraft

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization Data (1989-1993): 12,720 hrs/5yrs or 2,544 hrs/yr.

This historical data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993. The actual utilization data for the past 6 months was printed out and the historical data was extrapolated based on an assumed flat production cycle over the past 5 years.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1995-1997): 5,068 hrs/2yrs or 2,544 hrs/yr.

This projected data was estimated from data contained in the NAWCADLKE Manufacturing Production and Control System (MPCS) which has been in consistent use since 1993. The actual utilization data for the past 6 months was printed out and the projected data was extrapolated based on an assumed flat production cycle over the next 2 years. The Aviation Supply Office (ASO) has directed us to assume a level program through FY97.

13. What is the approximate number of personnel used to operate the facility/equipment.

1 or 2 per shift / 3 total over past 6 months

14. What is the approximate number of personnel needed to maintain the equipment.

Three Specialists (Electrician, Hydraulic Technician & Mechanic) as required.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

Revised pg UIC N68335

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment	Gyroscopic Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Gyroscopic Testing Rig is the only facility in the nation capable of gyroscopic testing full-scale propulsion systems operating under gyroscopic loads induced by very high rates of longitudinal rotation. It is used in engine RDT&E to demonstate engine operability under simulated manuvering conditions..

Note: (Impact): Gyroscopic moments resulting from aircraft manuvers in combination with engine shaft angular speed, cause forces on engine blades, rotors, shafts, and bearing supports. These forces deflect engine parts and supports which may cause engine parts to fail from overload, or for parts with relative motion to interfer with each other causing failure. In addition, centrifugal force may disrupt the oil sumps and system to cause oil starvation and bearing failures.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The gyroscopic test stand itself can be moved without damaging it; however, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
Gyro Stand Foundation
Gyro Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 27,600 X 2.039 = $ 56,246.
Support Systems: $996,000 shared cost with other test facilities. Unshared costs are estimated at $ 1,084,000 (R)

4. Provide the gross weight and cube of the facility/equipment.

Weight: 160 tons Cube: 126,720 CF (64Lx55Wx36H) (R)

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Gyroscopic Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Gyroscopic Testing Rig is the only facility in the nation capable of gyroscopic testing full-scale propulsion systems operating under gyroscopic loads induced by very high rates of longitudinal rotation. It is used in engine RDT&E to demonstate engine operability under simulated manuvering conditions..

Note: (Impact): Gyroscopic moments resulting from aircraft manuvers in combination with engine shaft angular speed, cause forces on engine blades, rotors, shafts, and bearing supports. These forces deflect engine parts and supports which may cause engine parts to fail from overload, or for parts with relative motion to interfer with each other causing failure. In addition, centrifugal force may disrupt the oil sumps and system to cause oil starvation and bearing failures.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The gyroscopic test stand itself can be moved without damaging it; howerver, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
Gyro Stand Foundation
Gyro Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 27,600 X 2.039 = $ 56,246.
Support Systems: $1,120,000 shared cost with other test facilities. Unshared costs are estimated at $ 1,238,000

4. Provide the gross weight and cube of the facility/equipment.

16,363 SF

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 50,000 pph, 50 psig., 15,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Costs:

Control Room	**$250,000**
Water Supply	**20,000**
Instrumentation Cables	**446,000(R)**
Fuel System	**40,000**
Cooling Tower	**64,000**
Gyro Stand Foundation	**25,000**
Gyro Stand Concrete Pad	**64,000**
Electrical System	**75,000**
Misc.	**100,000**
Total	**$ 1,084,000(R)**

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

Noise. White noise from 0 - 8,000 hertz at 175 dba. Engines and jet afterburner noise. Generally requires a site in a remote location. Otherwise, a very large building or sound enclosure would be required; not practical.

Safety. Potential engine failures may cause large, heavy pieces of engine roters, shafts and blades to travel hundreds of feet before comming to rest. Personnel protection must be provides. Site is usually located in a remote area.

Exhaust. A clear circle 300 foot in radius and having restricted access must be provided for building and personnel to avoid the jet blast.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Relocation of the test facilities to another site is not difficult, but it is expensive as noted by the above reconstruction cost. Also, the relocation expense would be prohibitive if the selected site was not remote due to safety and noise considerations. No such capability exists at other DoD or Non-DoD sites; DoD would loose the capability for gyro testing unless the Lakehurst facility is moved or reconstructed.

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 50,000 pph, 50 psig., 15,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Costs:

Control Room	**$250,000**
Water Supply	**20,000**
Instrumentation Cables	**600,000**
Fuel System	**40,000**
Cooling Tower	**64,000**
Gyro Stand Foundation	**25,000**
Gyro Stand Concrete Pad	**64,000**
Electrical System	**75,000**
Misc.	**100,000**
Total	**$ 1,238,000**

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

Noise. White noise from 0 - 8,000 hertz at 175 dba. Engines and jet afterburner noise. Generally requires a site in a remote location. Otherwise, a very large building or sound enclosure would be required; not practical.

Safety. Potential engine failures may cause large, heavy pieces of engine roters, shafts and blades to travel hundreds of feet before comming to rest. Personnel protection must be provides. Site is usually located in a remote area.

Exhaust. A clear circle 300 foot in radius and having restricted access must be provided for building and personnel to avoid the jet blast.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Relocation of the test facilities to another site is not difficult, but it is expensive as noted by the above reconstruction cost. Also, the relocation expense would be prohibitive if the selected site was not remote due to safety and noise considerations. No such capability exists at other DoD or Non-DoD sites; DoD would loose the capability for gyro testing unless the Lakehurst facility is moved or reconstructed.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

9. Indicate how and when the facility/equipment was transported and constructed at the site.

The basic gyro test stand was built off-site and transported to the installed at Lakehurst circa 1976. The support systems (fuel system, control room, instrumentation runs) were constructed on site. Transportation is by truck.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

- **1.0 Platforms;**
- **1.2 Aircraft**
- **3.0 Combat System Integration**
- **3.2 Air**
- **10.0 General Mission Support**
- **10.8 Other Subsidiary Systems or Support Components**
- **10.9 Activity Mission and Functional Support**

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization data (1989-1993): 32.5 hrs/5 yrs or 6.5 hrs/yr. (R)

Used for T800 engine programs for a total of 3 tests. First two test resulted in engine failures which required redesign; third test verified redesign fixes.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

Test of the upgraded F-414 engine is scheduled for FY95 and FY96. A test of the T-53 engine is planned for FY95.

13. What is the approximate number of personnel used to operate the facility/equipment.

Eight persons: five aircraft engine mechanics; one instrumentation engineer; one instrumentation mechanic; one test cell engineer/technician. 2000 hrs per test . (R)

14. What is the approximate number of personnel needed to maintain the equipment.

Five part time (9%): two aircraft engine mechanics; two instrumentation mech/ engineer; one maintenance engineer/elect. mech. 750 hrs per year. (R)

9. Indicate how and when the facility/equipment was transported and constructed at the site.

The basic gyro test stand was built off-site and transported to the installed at Lakehurst circa 1976. The support systems (fuel system, control room, instrumentation runs) were constructed on site. Transportation is by truck.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

- **1.0 Platforms;**
- **1.2 Aircraft**
- **3.0 Combat System Integration**
- **3.2 Air**
- **10.0 General Mission Support**
- **10.8 Other Subsidiary Systems or Support Components**
- **10.9 Activity Mission and Functional Support**

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Used for T800 engine programs for a total of 3 tests. First two test resulted in engine failures which required redesign; third test verified redesign fixes.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

Test of the upgraded F-414 engine is scheduled for FY95 and FY96. A test of the T-53 engine is planned for FY95.

13. What is the approximate number of personnel used to operate the facility/equipment.

Five persons. 2000 hrs per test .

14. What is the approximate number of personnel needed to maintain the equipment.

750 hrs per year.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

Revised pg UIC N68335

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment	Variable Attitude Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Variable Attitude Test Stand (VATS) test engine operation under variable attitude conditions such as those found in the V-22. It is the only such facility in the USA. VATS is used for lubrication, gear and bearing systems operability testing and accelerated simulation mission endurance testing turboprop/turboshaft engines, gearboxes and propeller systems at attitudes between -6 to +115 degrees from the horizontal position and rolling plus or minus 50 degrees and can handle a prop-rotor of up to 45 feet in diameter.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The VATS itself can be moved without damaging it; however, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
VATS Stand Foundation
VATS Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 174,812 X 1.199 = $ 209,600.
Support Systems: $1,230,000 shared cost with other test facilities. Unshared costs are estimated at $ 1,348,000 (R)

4. Provide the gross weight and cube of the facility/equipment.

Weight: 16 tons Cube: 90,480 CF (87Lx20Wx52H) (R)

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 6,000 pph, 50 psig., 15,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Variable Attitude Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Variable Attitude Test Stand (VATS) test engine operation under variable attitude conditions such as those found in the V-22. It is the only such facility in the USA. VATS is used for lubrication, gear and bearing systems operability testing and accelerated simulation mission endurance testing turboprop/turboshaft engines, gearboxes and propeller systems at attitudes between -6 to +115 degrees from the horizontal position and rolling plus or minus 50 degrees and can handle a prop-rotor of up to 45 feet in diameter.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The VATS itself can be moved without damaging it; howerver, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
VATS Stand Foundation
VATS Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 174,812 X 1.199 = $ 209,600.
Support Systems: $1,238,000 shared cost with other test facilities. Unshared costs are estimated at $ 1,120,000

4. Provide the gross weight and cube of the facility/equipment.

60,000 SF

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 6,000 pph, 50 psig., 15,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Costs:

Control Room	**$250,000**
Water Supply	**20,000**
Instrumentation Cables	**710,000(R)**
Fuel System	**40,000**
Cooling Tower	**64,000**
VATS Stand Foundation	**25,000**
VATS Stand Concrete Pad	**64,000**
Electrical System	**75,000**
Misc.	**100,000**
Total	**$ 1,348,000(R)**

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

Noise. White noise from 0 - 8,000 hertz at 175 dba. Engines and jet afterburner noise. Engine and propeller/rotor noise. Generally requires a site in a remote location. Otherwise, a very large building or sound enclosure would be required; not practical.

Safety. Potential engine and prop/rotor failures may cause large, heavy pieces of engine roters, shafts and blades to travel hundreds of feet before coming to rest. Personnel protection must be provides. Site is usually located in a remote area.

Exhaust. A clear circle 100 foot in radius and having restricted access must be provided to avoid picking up ground debris by the rotor or to avoid the rotor blast.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Relocation of the test facilities to another site is not difficult, but it is expensive as noted by the above reconstruction cost. Also, the relocation expense would be prohibitive if the selected site was not semi-remote due to safety and noise considerations. The VATS is the only such rig in the USA that offers universal test capability for tilt wing drive systems. Other alternatives are building iron birds for each application at much higher cost; such facilities are generaly not available in time for timely engine and drive system component development.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

The basic VATS was built off-site and transported to and installed at Lakehurst circa 1985. The support systems (fuel system, control room, instrumentation runs) were constructed on site. Transportation was by truck.

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Costs:

Control Room	**$250,000**
Water Supply	**20,000**
Instrumentation Cables	**600,000**
Fuel System	**40,000**
Cooling Tower	**64,000**
VATS Stand Foundation	**25,000**
VATS Stand Concrete Pad	**64,000**
Electrical System	**75,000**
Misc.	**100,000**
Total	**$ 1,238,000**

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

Noise. White noise from 0 - 8,000 hertz at 175 dba. Engines and jet afterburner noise. Engine and propeller/rotor noise. Generally requires a site in a remote location. Otherwise, a very large building or sound enclosure would be required; not practical.

Safety. Potential engine and prop/rotor failures may cause large, heavy pieces of engine roters, shafts and blades to travel hundreds of feet before comming to rest. Personnel protection must be provides. Site is usually located in a remote area.

Exhaust. A clear circle 100 foot in radius and having restricted access must be provided to avoid picking up ground debris by the rotor or to avoid the rotor blast.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Relocation of the test facilities to another site is not difficult, but it is expensive as noted by the above reconstruction cost. Also, the relocation expense would be prohibitive if the selected site was not semi-remote due to safety and noise considerations. The VATS is the only such rig in the USA that offers universal test capability for tilt wing drive systems. Other alternatives are building iron birds for each application at much higher cost; such facilities are generaly not available in time for timely engine and drive system component development.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

The basic VATS was built off-site and transported to the installed at Lakehurst circa 1985. The support systems (fuel system, control room, instrumentation runs) wre constructed on site. Transportation is by truck.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

1.0	**Platforms**
1.2	**Aircraft**
3.0	**Combat System Integration**
3.2	**Air**
10.0	**General Mission Support**
10.8	**Other Subsidiary Systems or Support Components**
10.9	**Activity Mission and Functional Support**

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization data (1989-1993): 0 (R)

The VATS has not been used for an official test. It was installed in preparation for testing of V-22 aircraft drive and rotor components. However, the V-22 aircraft development program has had delays and cancellations which has delayed any planned testing with the VATS.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

No testing is scheduled at this time. However, under review at this time by the V-22 program office is whether to use the VATS in the FY95-FY96 time frame. Allegedly, testing can be accomplished with the VATS in lieu of the airframe contractors's iron bird at a savings of many (>20) millions of dollars.

13. What is the approximate number of personnel used to operate the facility/equipment.

Eight persons: five aircraft engine mechanics; one intrumentation engineer; one instrumentation mechanic; one test cell engineer/technician. 4000 hrs per test. (R)

14. What is the approximate number of personnel needed to maintain the equipment.

Five part time (9%): two aircraft engine mechs; two instrumentation mech/engineer; one maintenance engineer, elect/mech. 750 hrs per year. (R)

15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Refer to Gyroscopic Test Stand Outdoor Facility for photo.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

1.0 Platforms
1.2 Aircraft
3.0 Combat System Integration
3.2 Air
10.0 General Mission Support
10.8 Other Subsidiary Systems or Support Components
10.9 Activity Mission and Functional Support

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

The VATS has not been used for an official test. It was installed in preparation for testing of V-22 aircraft drive and rotor components. However, the V-22 aircraft development program has had delays and cancellations which has delayed any planned testing with the VATS.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

No testing is scheduled at this time. However, under review at this time by the V-22 program office is whether to use the VATS in the FY95-FY96 time frame. Alledgedly, testing can be accomplished with the VATS in lieu of the airframe contractors's iron bird at a savings of many (>20) millions of dollars.

13. What is the approximate number of personnel used to operate the facility/equipment.

Five persons. 4000 hrs per test .

14. What is the approximate number of personnel needed to maintain the equipment.

750 hrs per year.

15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Refer to Gyroscopic Test Stand Outdoor Facility for photo.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Document Separator

Revised pg UIC N68335

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	NAWCADLKE
Facility/Equipment	Turntable Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Multi-purpose turntable test stand is used for outdoor tests requiring that the engine be rotated through various positions to show various profiles (e.g. IR testing), or to orientate the engine/propeller into the winds, or for general outdoor testing. Typical tests are for free air stream performance evaluations, thrust measurement, correlation testing, exhaust emissions/smoke and polution measurements, infrared (IR) measures and humidity effects investigations, endurance testing and noise measurement. The turntable can orient an engine into the prevailing wind without cell effects to obtain extremely accurate performance measures.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The Turntable itself can be moved without damaging it; however, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
Table Stand Foundation
Table Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 89,000 X 2.039 = $ 181,471.
Support Systems: $1,398,000 unshared cost with other test facilities. Shared costs are estimated at $ 1,300,000

4. Provide the gross weight and cube of the facility/equipment.

Weight: 16 tons Cube: 37,800 CF (60Lx30Wx21H) (R)

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 90,000 pph, 50 psig., 50,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment	Turntable Test Stand
Nomenclature or Title	Outdoor Facility

1. State the primary purpose of the facility/equipment

Multi-purpose turntable test stand is used for outdoor tests requiring that the engine be rotated through various positions to show various profiles (e.g. IR testing), or to orientate the engine/propeller into the winds, or for general outdoor testing. Typical tests are for free air stream performance evaluations, thrust measurement, correlation testing, exhaust emissions/smoke and polution measurements, infrared (IR) measures and humidity effects investigations, endurance testing and noise measurement. The turntable can orient an engine into the prevailing wind without cell effects to obtain extremely accurate performance measures.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed: The Turntable itself can be moved without damaging it; however, required major supporting systems must be reconstructed. They are:

Control Room
Water Supply
Instrumentation Cables
Fuel Systems
Table Stand Foundation
Table Stand Concrete Pad

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

Stand Cost: $ 89,000 X 2.039 = $ 181,471.
Support Systems: $1,398,000 unshared cost with other test facilities. Shared costs are estimated at $ 1,300,000

4. Provide the gross weight and cube of the facility/equipment.

60,000 SF

5. Indicate any special utility support required other than normal electrical power.

Electrical: 480 vac, 400 amps.
Shop Air: 1 pps, 90 psig.
JP-5 Fuel: 90,000 pph, 50 psig., 50,000 gallon storage
Water: 450 gpm, 50 psig.
Cooling Tower: 15,000,000 btu/hr, 450 gpm at 150 degrees F.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

Costs:

Control Room	**$250,000**
Water Supply	**20,000**
Instrumentation Cables	**700,000**
Fuel System	**100,000**
Cooling Tower	**64,000**
Table Stand Foundation	**25,000**
Table Stand Concrete Pad	**64,000**
Electrical System	**75,000**
Misc.	**100,000**
Total	**$ 1,398,000**

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

Noise. White noise from 0 - 8,000 hertz at 175 dba. Engines and jet afterburner noise. Engine and propeller/rotor noise. Generally requires a site in a remote location. Otherwise, a very large building or sound enclosure whould be required; not practical.

Safety. Potential engine and prop/rotor failures may cause large, heavy pieces of engine rotors, shafts and blades to travel hundreds of feet before comming to reat. Personnel protection must be provided. Site is usually located in a remote area.

Exhaust. A clear circle 300 foot in radius and having restricted access must be provided for buildings and personnel to avoid the jet blast.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Relocation of the test facilities to another site is not difficult, but it is expensive as noted by the above reconstruction cost. Also, the relocation expense would be prohibitive if the selected site was not remote due to safety and noise considerations. There are other similar commercial sites that could perform some of the testing.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

The Turntable was built off-site and transported to the installation at Lakehurst circa 1976. The support systems (fuel system, control room, instrumentation runs) were constructed on site. Transportation is by truck.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

- **1.0 Platforms**
- **1.2 Aircraft**
- **3.0 Combat System Integration**
- **3.2 Air**
- **10.0 General Mission Support**
- **10.8 Other Subsidiary Systems or Support Components**
- **10.9 Activity Mission and Functional Support**

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Utilization data (1989-1993): 720.5 hrs/5 yrs or 144.l hrs/yr. (R)

Seven engine tests for a total of 720.5 engine test hours. (R)

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

Planned testing is TF34 auto re-light in FY94, F414 Noise and IR testing and F406 endurance testing in FY95, T406 endurance T64 CIP in FY96, and MLR ASMET and T58 CIP in FY97.

13. What is the approximate number of personnel used to operate the facility/equipment.

Eight persons: five aircraft engine mechanics; one instrumentation engineer; one instrumentation mechanic; one test cell engineer/technician. 3000 hrs per test.(R)

14. What is the approximate number of personnel needed to maintain the equipment.

Five part time (6%): two aircraft engine mechanics; two instrumentation mech/engineer; one maintenance engineer, elect/mech. 450 hrs per year. (R)

15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Refer to Gyroscopic Test Stand Outdoor Facility for photo.

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Functional support areas include

1.0 Platforms
1.2 Aircraft
3.0 Combat System Integration
3.2 Air
10.0 General Mission Support
10.8 Other Subsidiary Systems or Support Components
10.9 Activity Mission and Functional Support

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

Seven engine tests for a total of 970.2 engine test hours.

12. Provide the projected utilization data out to FY1997.

Projected Utilization Data (1994-1997):

Planned testing is TF34 auto re-light in FY94, F414 Noise and IR testing and F406 endurance testing in FY95, T406 endurance T64 CIP in FY96, and MLR ASMET and T58 CIP in FY97.

13. What is the approximate number of personnel used to operate the facility/equipment.

Five persons. 3000 hrs per test .

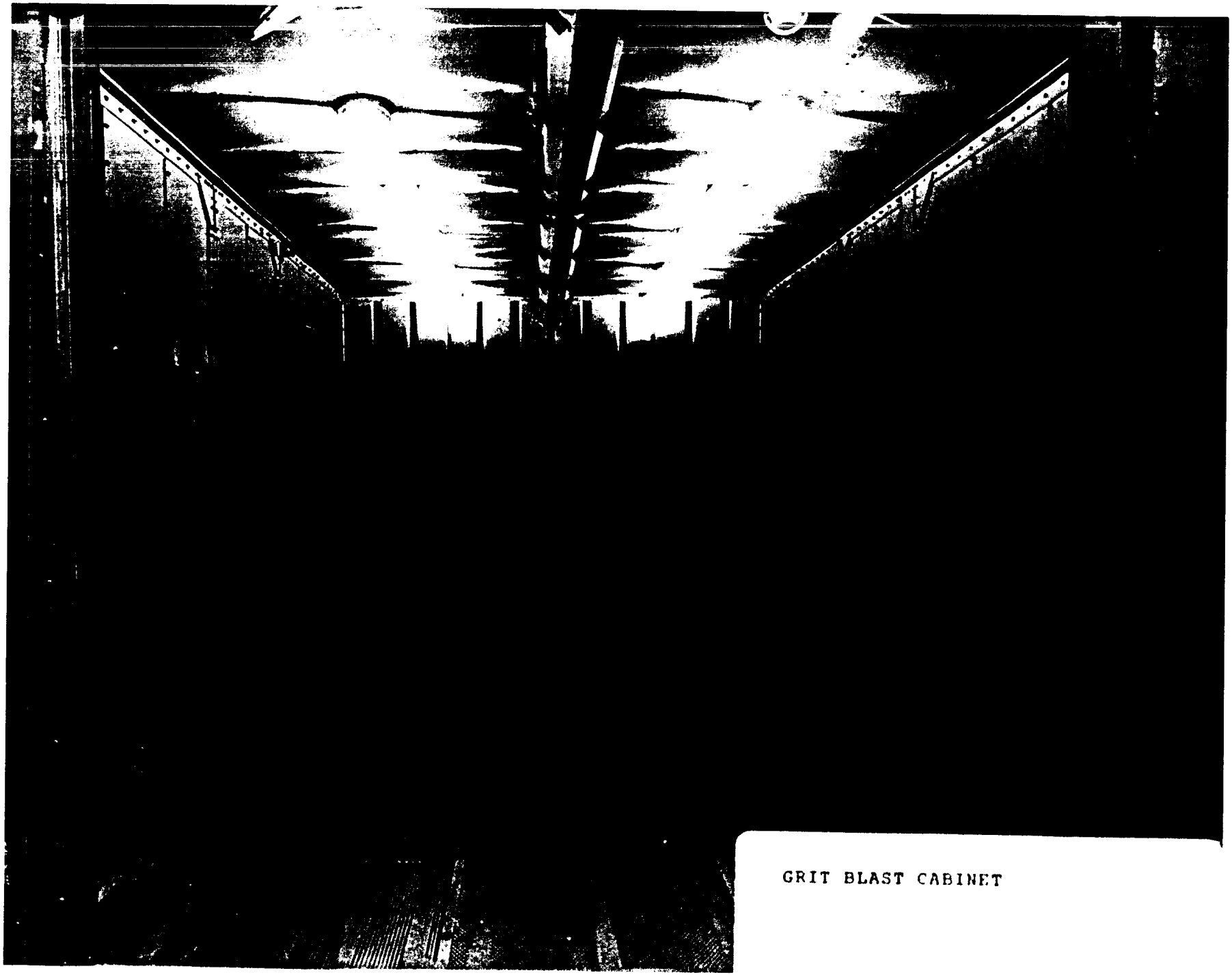
14. What is the approximate number of personnel needed to maintain the equipment.

450 hrs per year.

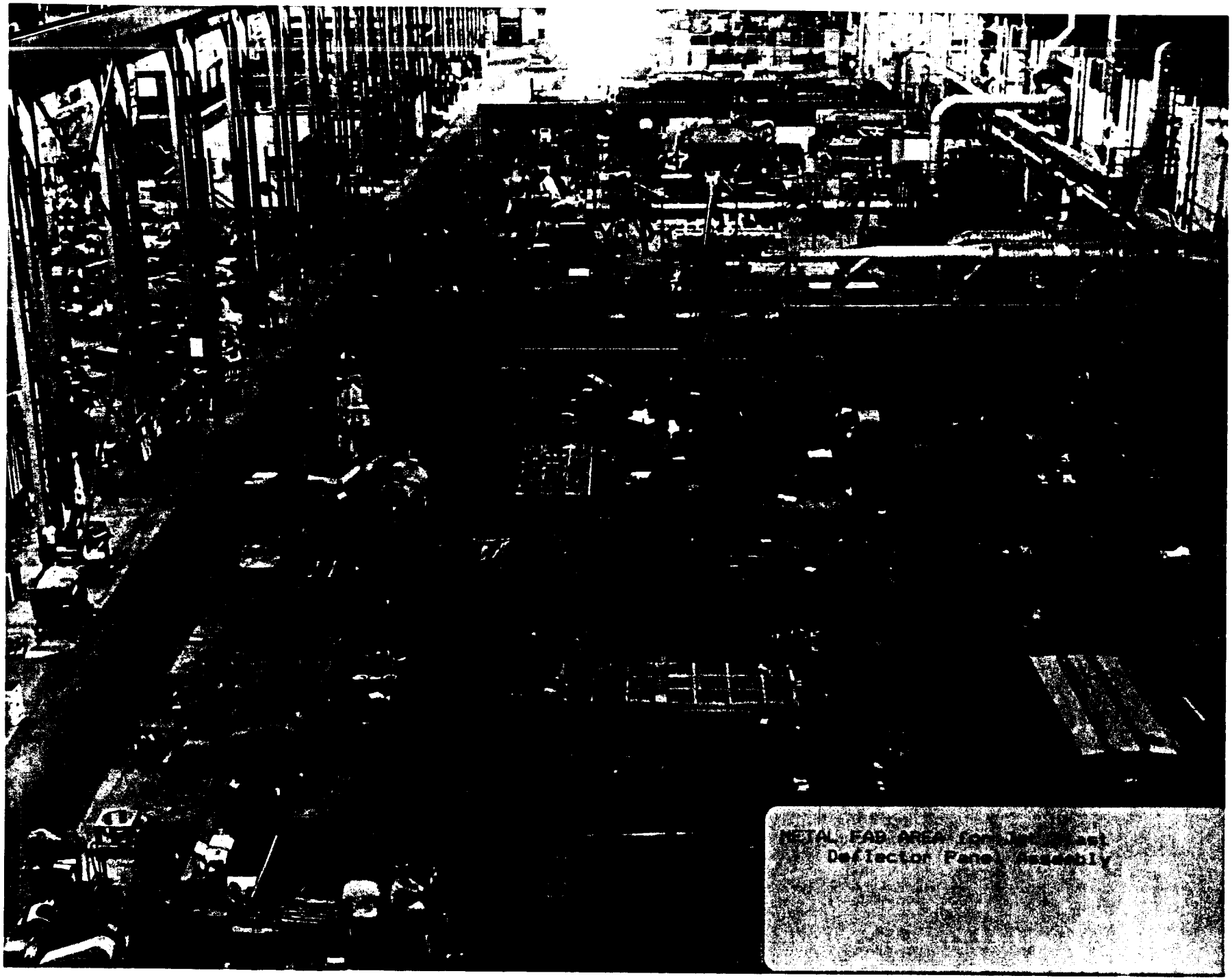
15. Provide one 8 1/2 x 11 black and white photo of the facility equipment.

Refer to Gyroscopic Test Stand Outdoor Facility for photo.

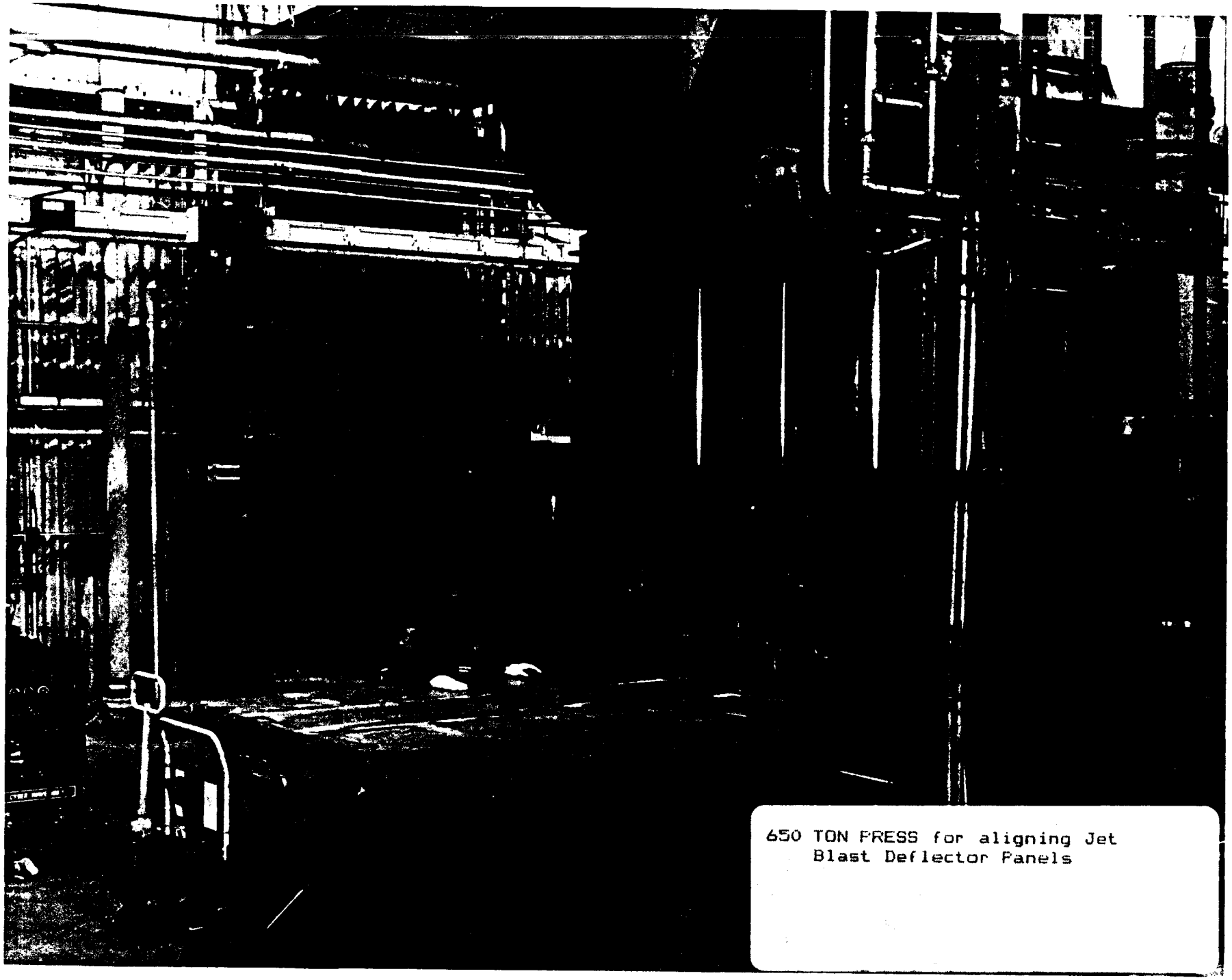
FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



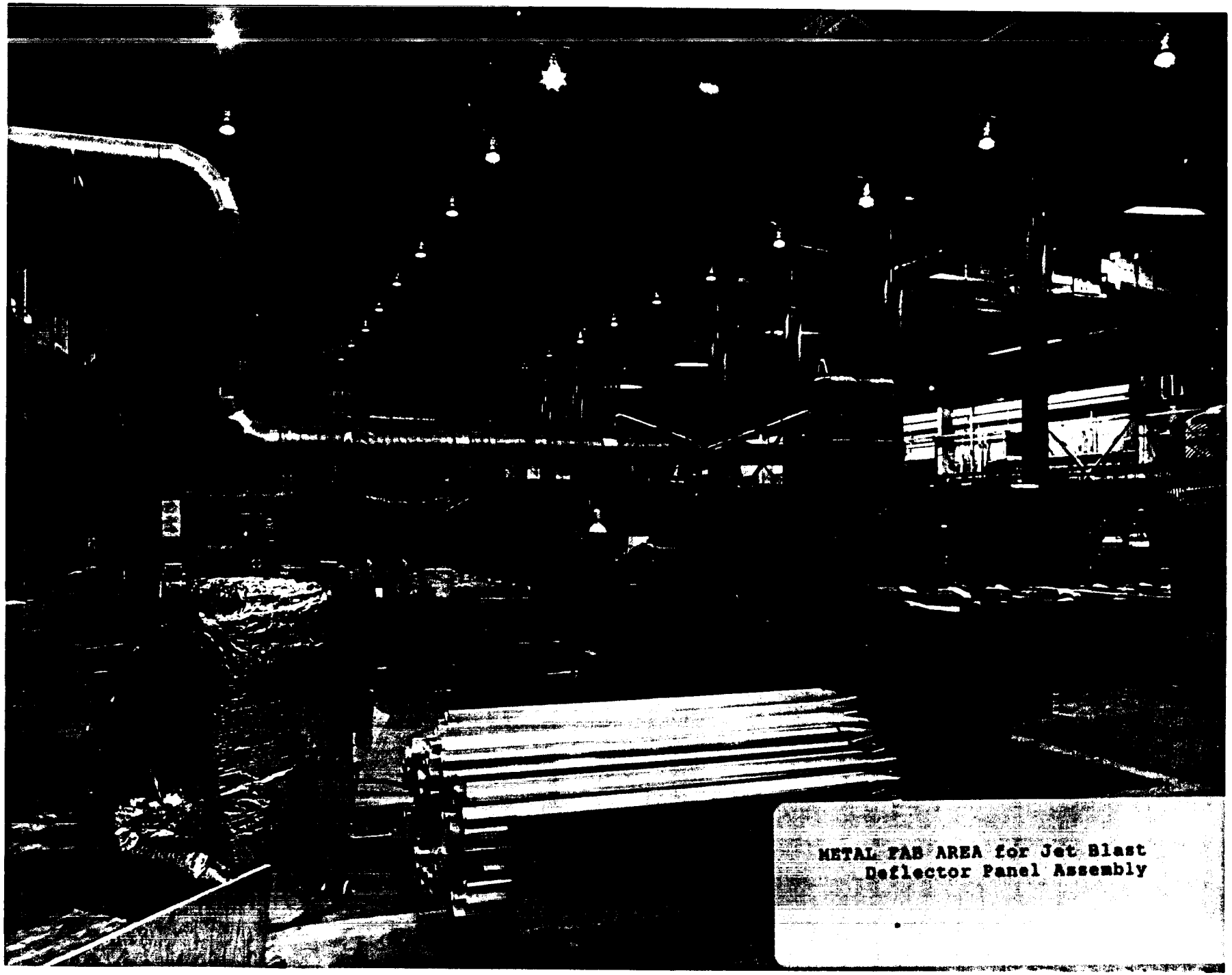
GRIT BLAST CABINET



METAL FAB AREA for [illegible]
Deflector Panel Assembly

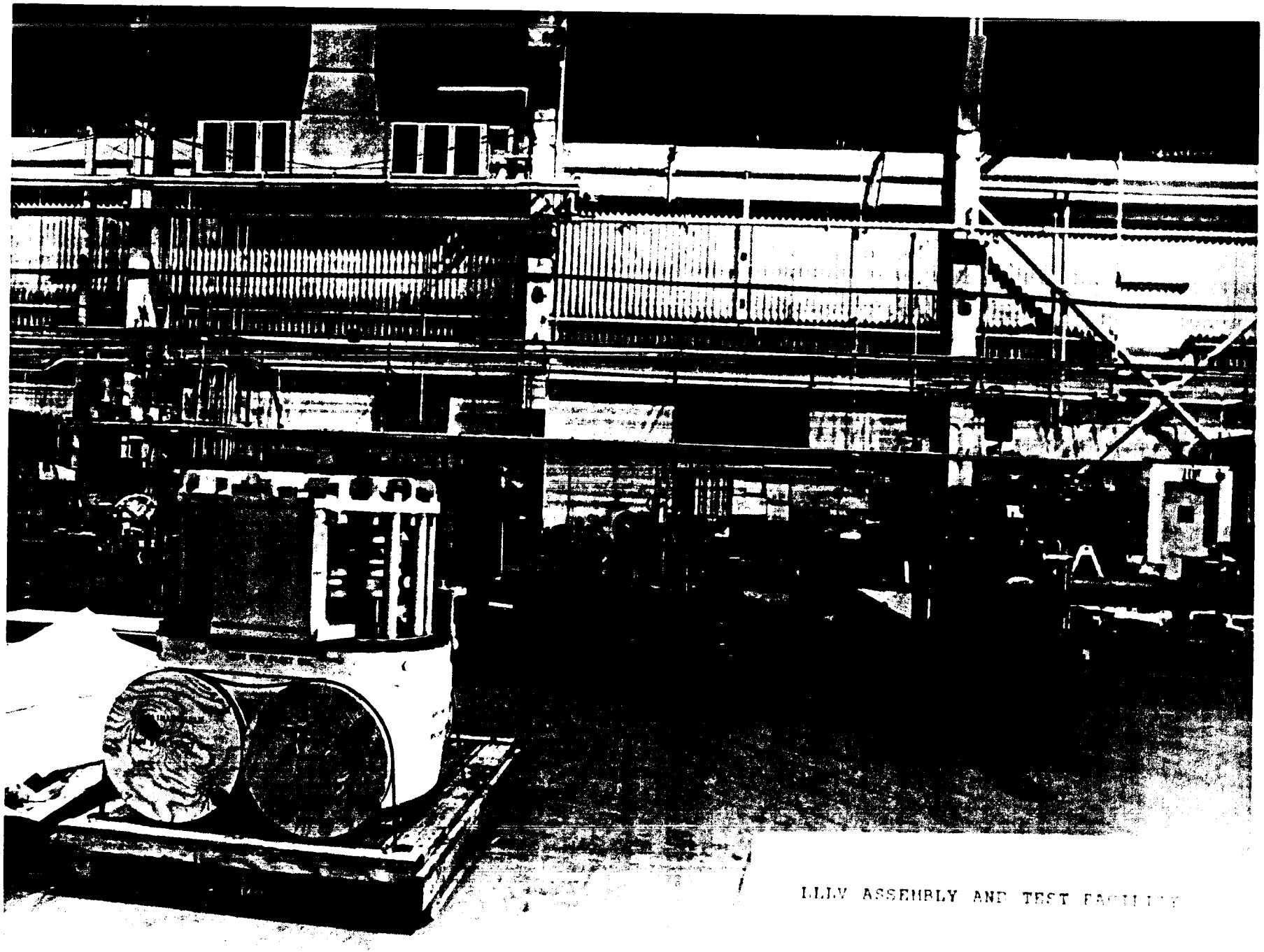


650 TON PRESS for aligning Jet
Blast Deflector Panels

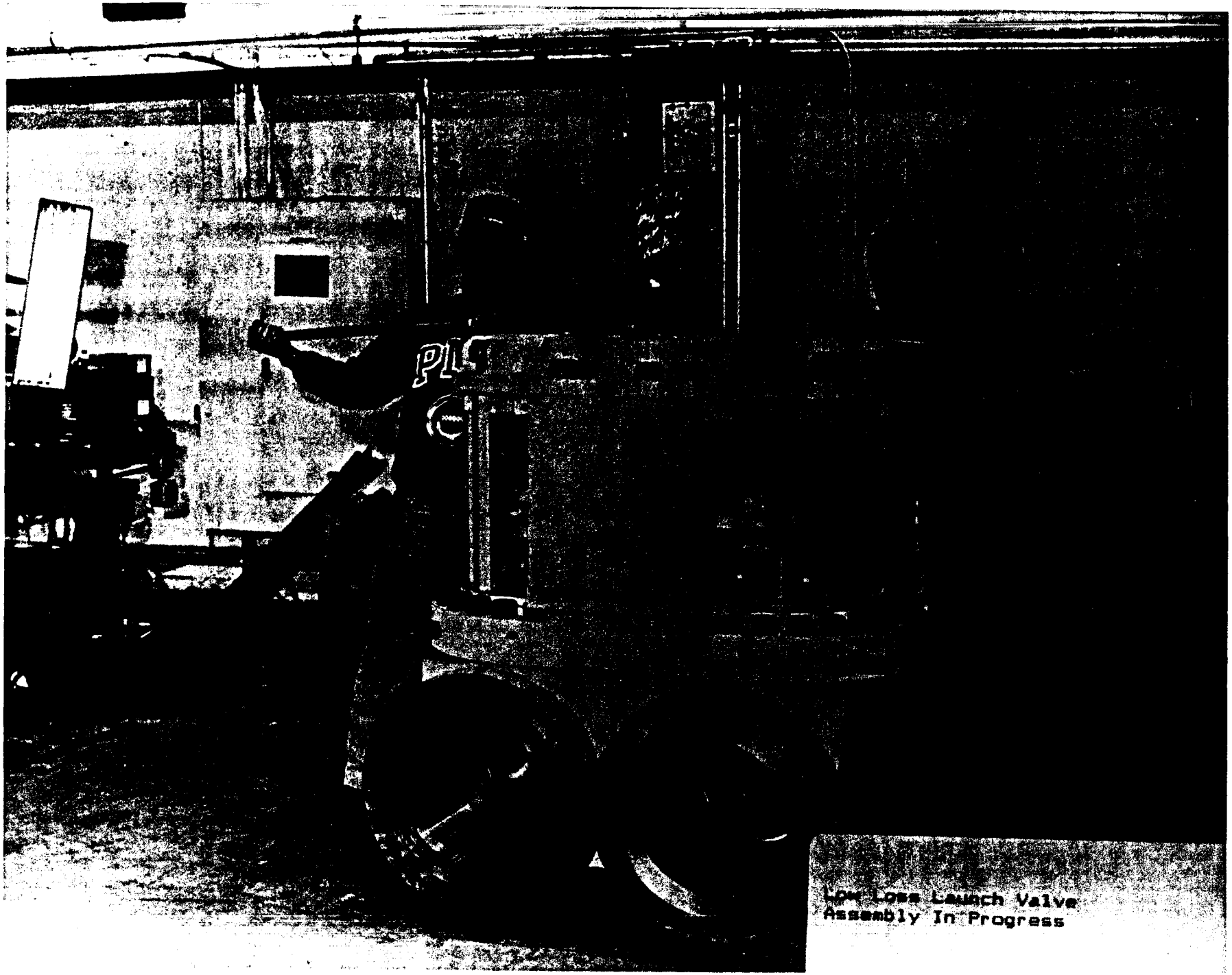


METAL FAB AREA for Jet Blast
Deflector Panel Assembly

JET BLAST DEFLECTOR
WELD/POSITIONERS
Building 99

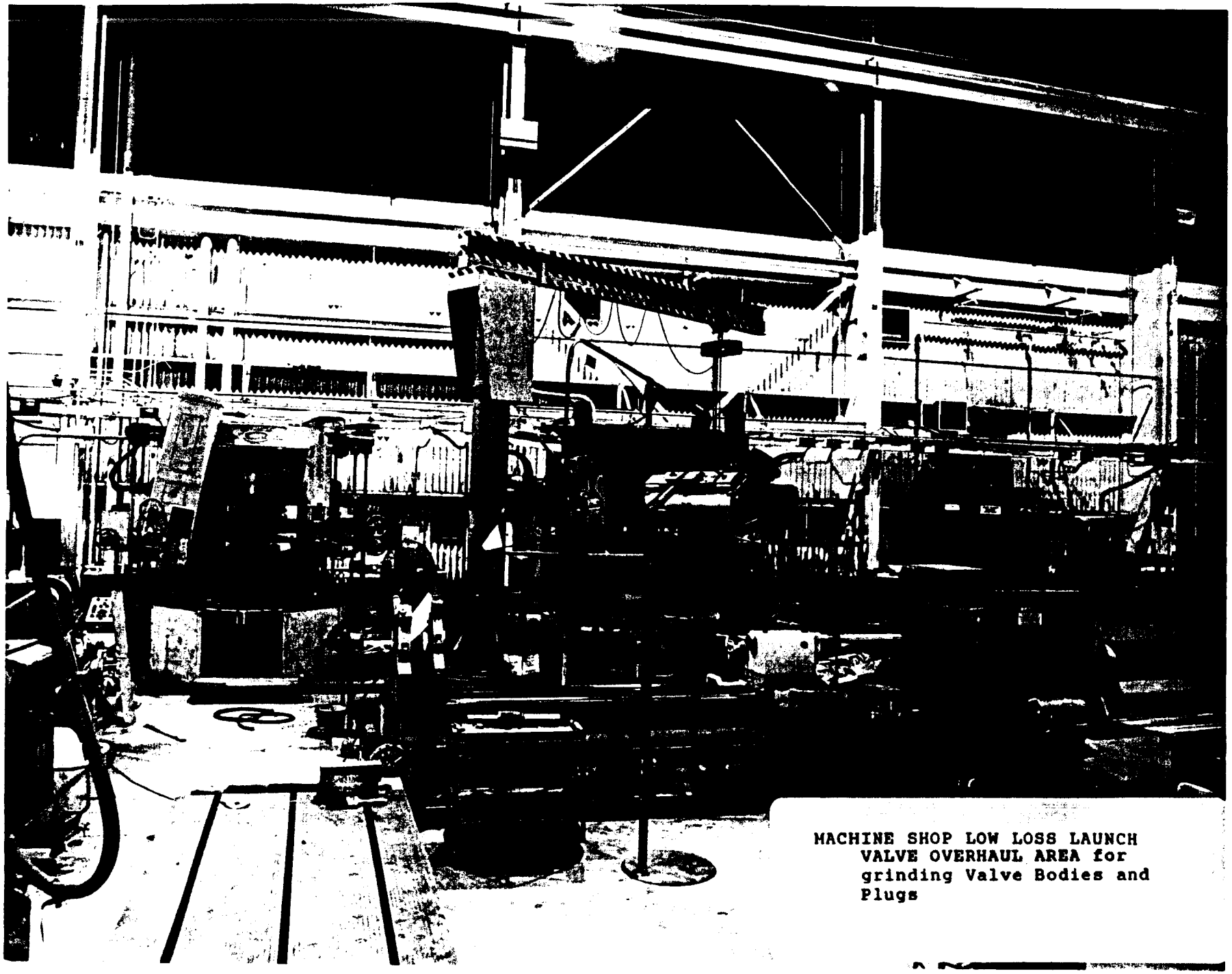


LLLV ASSEMBLY AND TEST FACILITY

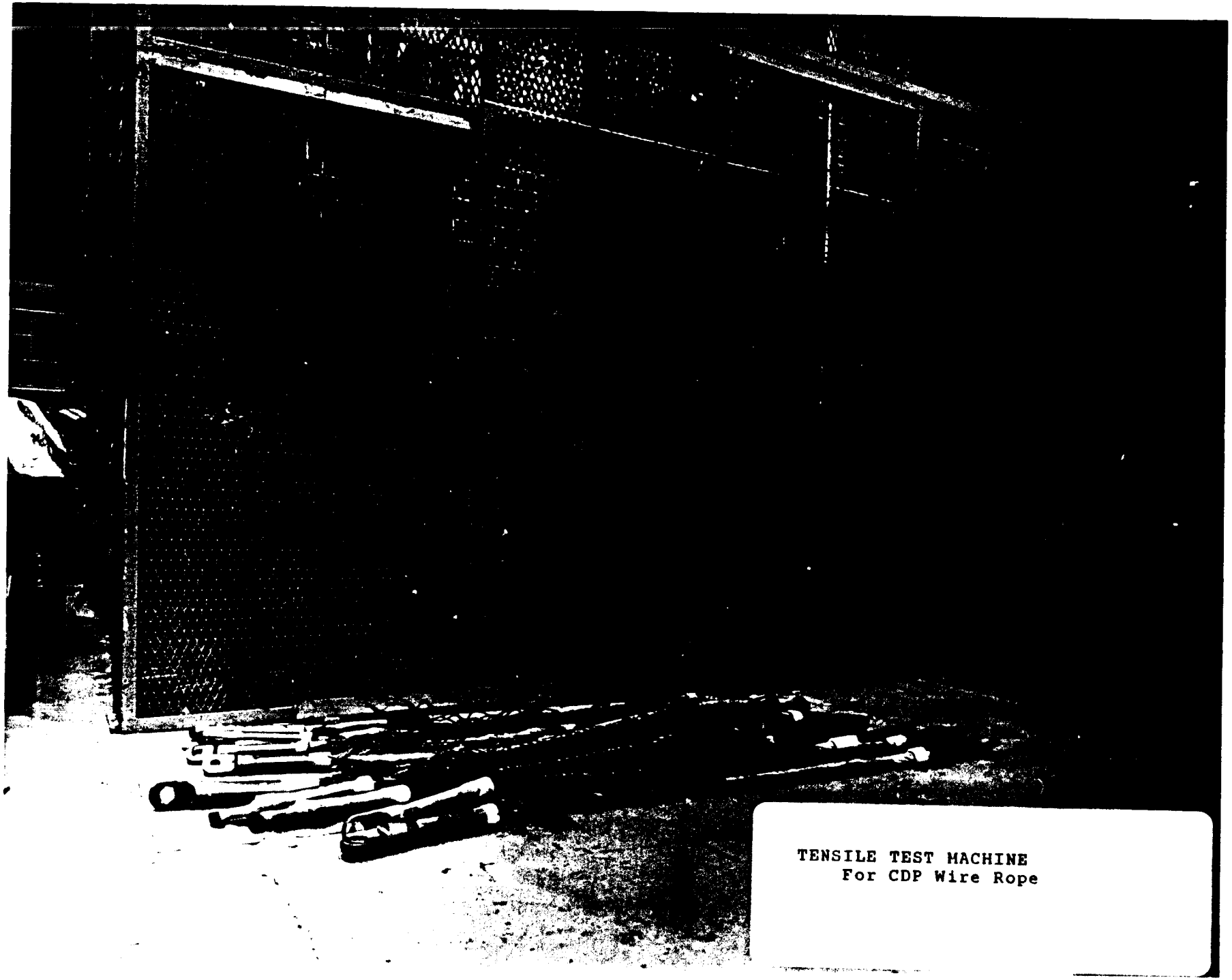


Low Loss Launch Valve
Assembly In Progress

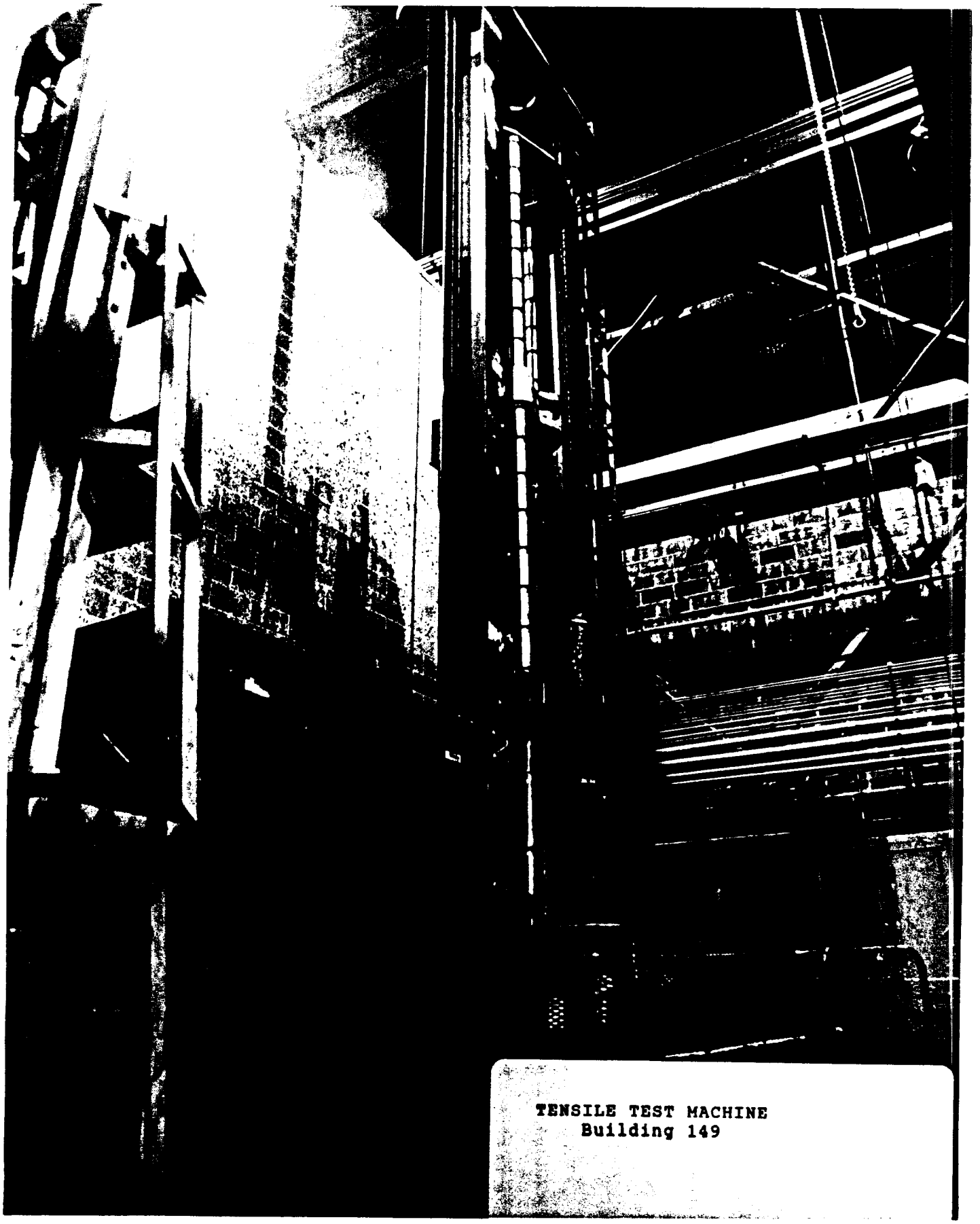
Low Loss Loop in Solar
Electric Energy



MACHINE SHOP LOW LOSS LAUNCH VALVE OVERHAUL AREA for grinding Valve Bodies and Plugs



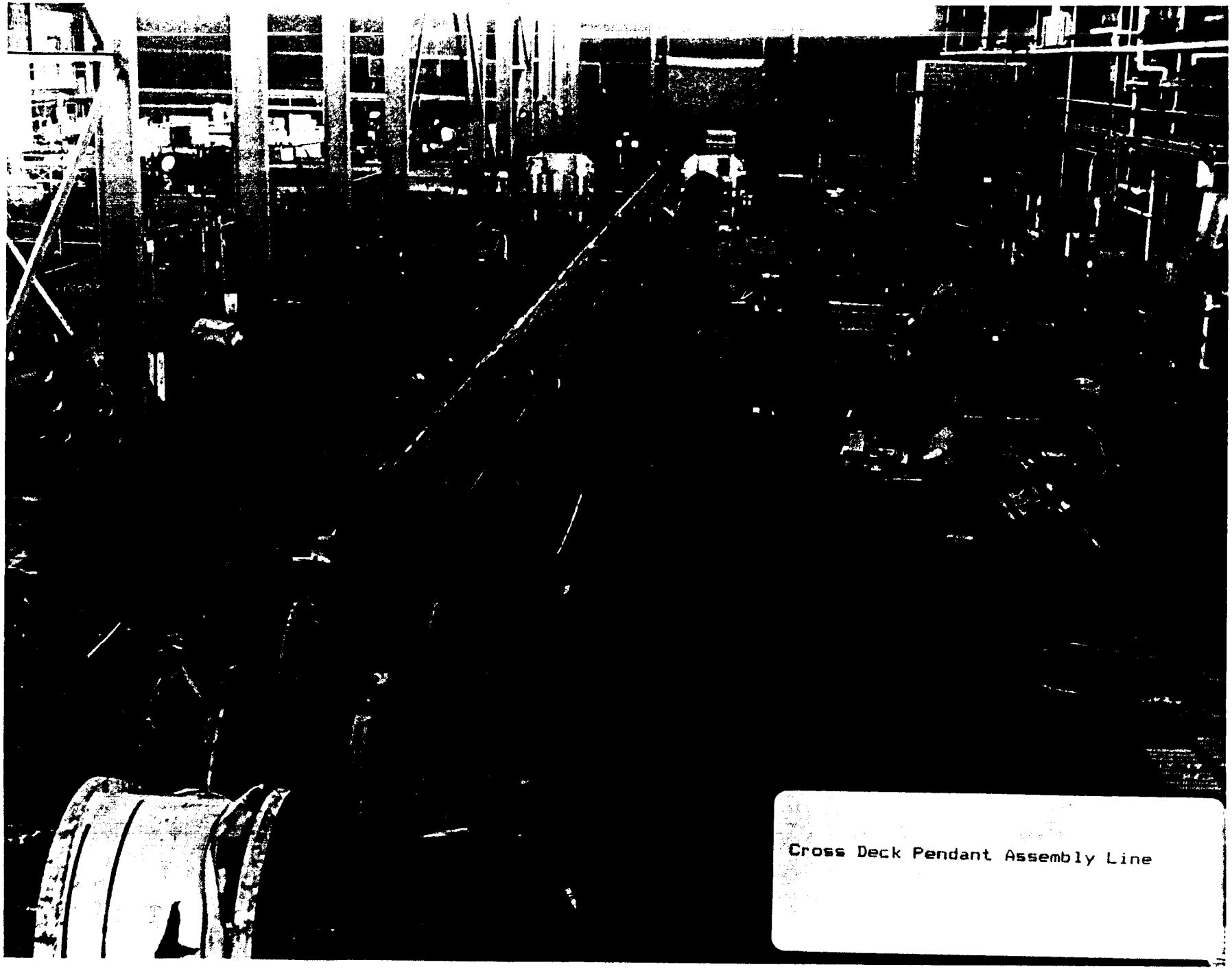
TENSILE TEST MACHINE
For CDP Wire Rope



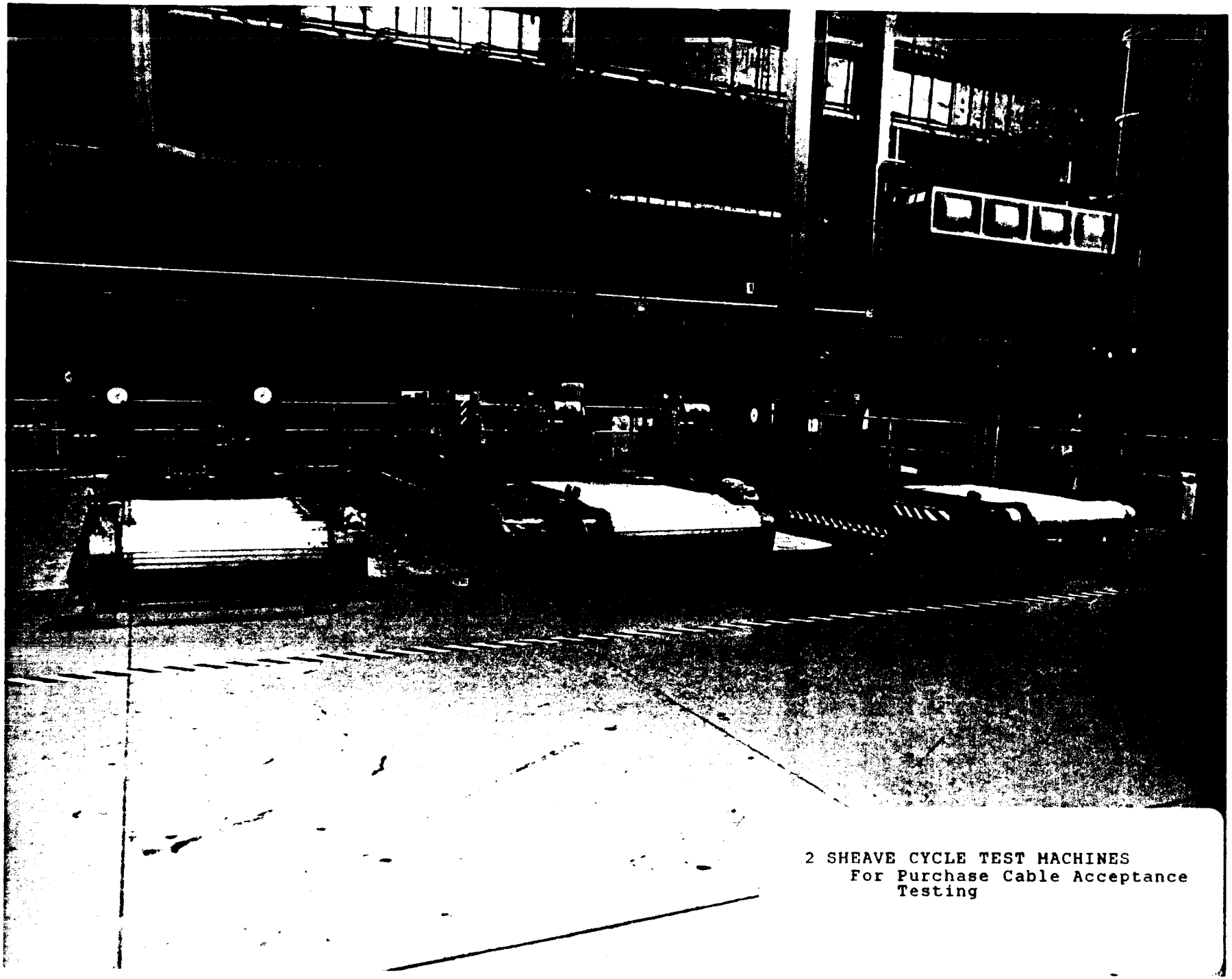
TENSILE TEST MACHINE
Building 149

300,000 TON PRESS
for Cross Deck Fender
Terminal Swaging

Cross Deck Pendant Assembly Line

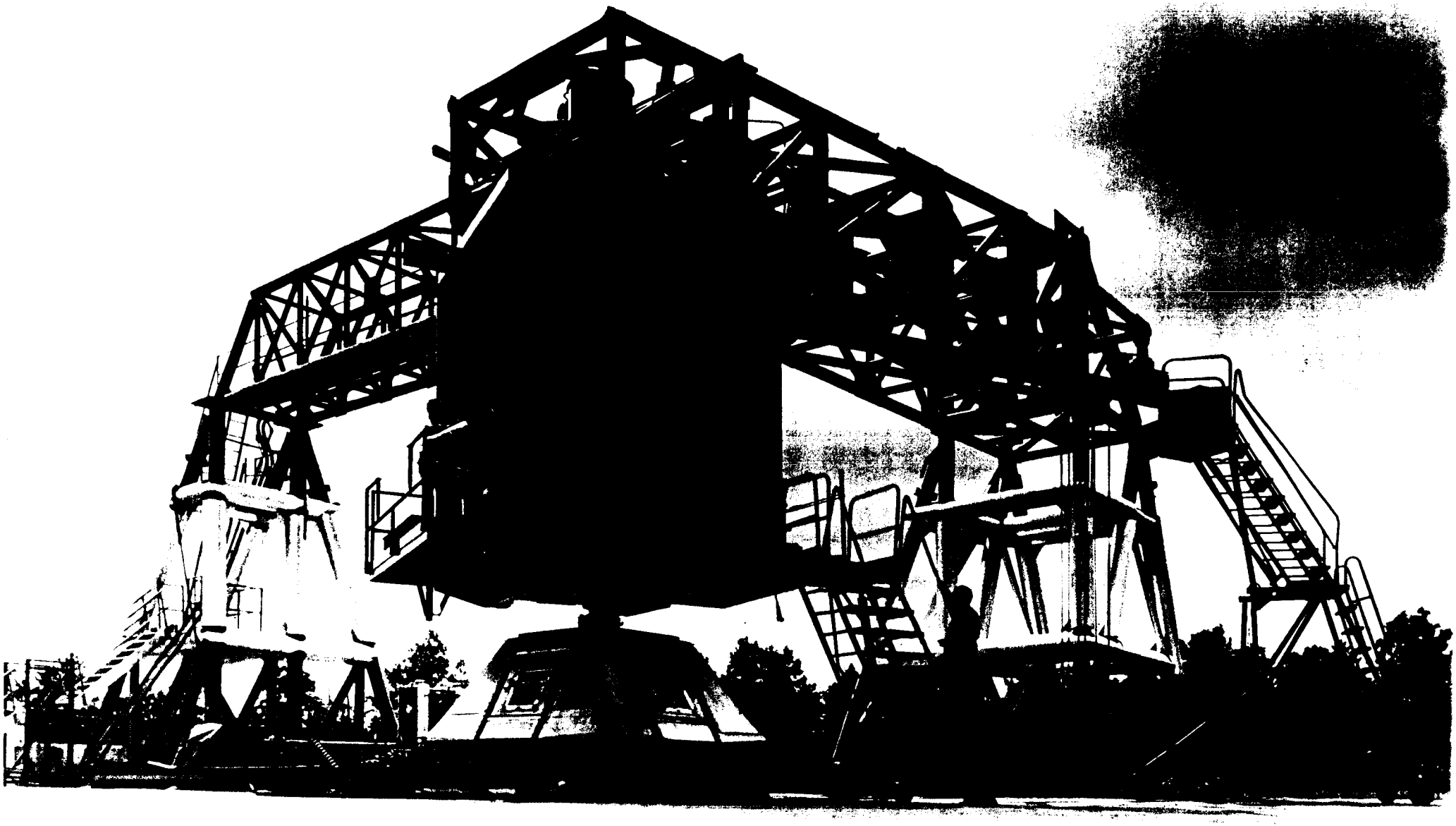


Cross Deck Pendant Assembly Line



2 SHEAVE CYCLE TEST MACHINES
For Purchase Cable Acceptance Testing

5 SHEAVE CYCLE TESTER



NAWCAD TRENTON
OUTDOOR FACILITY

Document Separator

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAWCADLKE**
Facility/Equipment Nomenclature or Title	Parachute/Drop Zone Training

1. State the primary purpose of the facility/equipment

Parachute jump circle traing and Cargo drop zone training.

2. Indicate whether the facility/equipment is portable, moveble or fixed as defined by paragraph 6, page 12 ofthis data call.

Fixed facility.

3. Provide replacement value of facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

N/A

4. Provide the gross weight and cube of the facility/equipment.

N/A

5. Indicate any special utility support required other than normal electrical power.

N/A

6. Indicate any special budget requirements for the facility/equipment (ie special foundations, non-ferrous materials, hardening).

$2,200 per year to maintain a clear area.

7. State any environmental control requirements for the facility/equipment (ie temperature, humidity, air scrubbing).

None.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the DON if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

This facility could be replaced elsewhere, however, it requires a 288-acre clear zone within the vicinity of an airfield tocontrol operations, which exist at NAWCAD Lakehurst.

9. Indicate how and when the facility/equipment was transported and constructed at the site.

Facility was built in 1944 as an emergency airship landing mat and a parachute training jump circle.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

10.1 Personnel and Training
10.1.2 Aircraft Related Training Systems

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure.

An average of 165 days a year, used primarily by Navy Seals, U.S. Marine Corps and McGuire Air Force Base.

12. Provide the projected utilization data out to FY1997.

Approximate total usage will be 190 days with McGuire Air Force Base significantly increasing its usage.

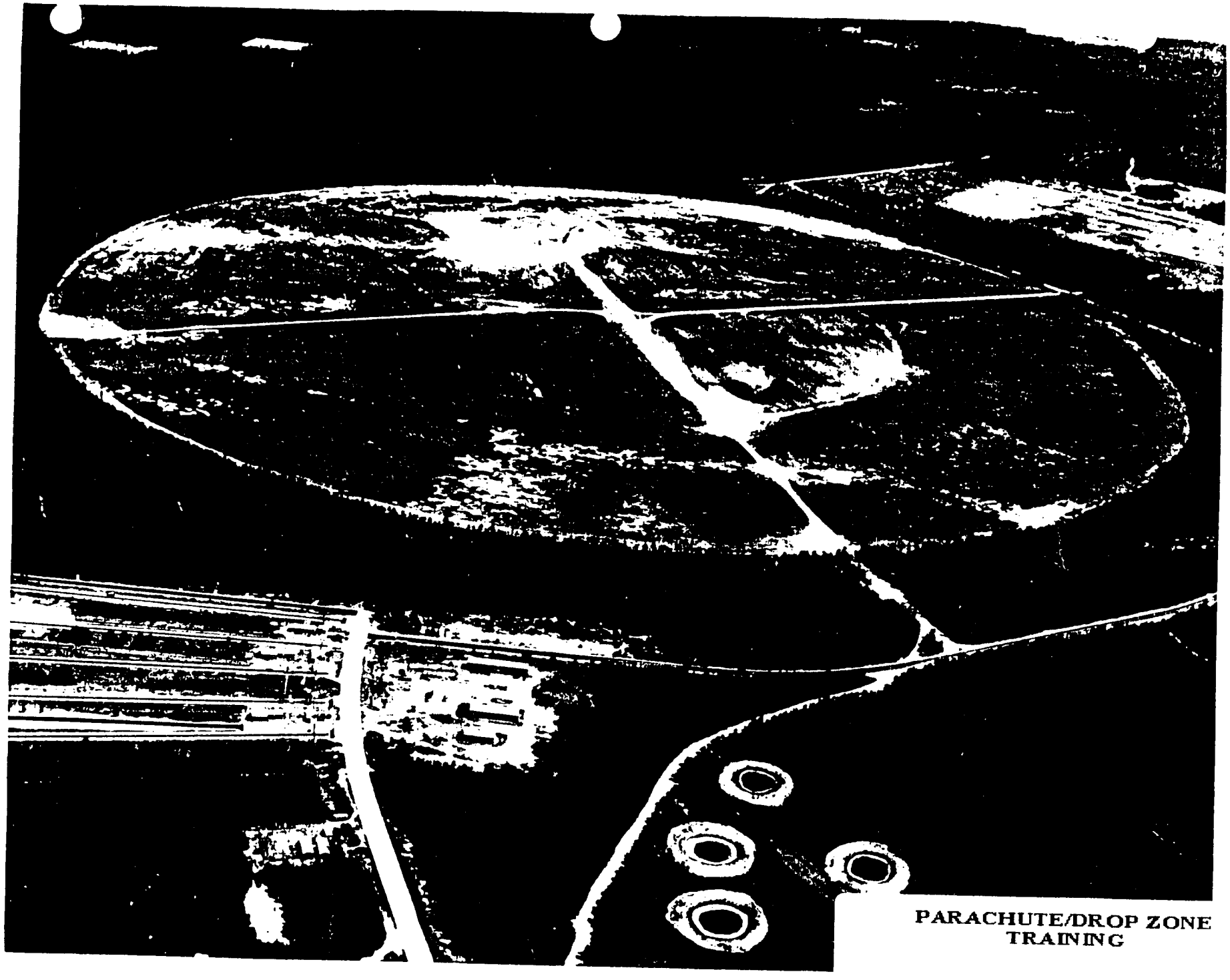
13. What is the approximate number of personnel used to operate the facility/equipment.

Included as normal airfield operations.

14. What is the approximate number of personnel needed to maintain the equipment.

One part -time person.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



PARACHUTE/DROP ZONE
TRAINING

TAB C

RANGE RESOURCES

RANGE CAPABILITY FORM

**THIS TAB DOES NOT APPLY
TO THE
NAVAL AIR WAREFARE CENTER AIRCRAFT
DIVISION LAKEHURST**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

UIC N68335

RANGE RESOURCES
RANGE CAPABILITY FORM

Technical Center Site	
Range Nomenclature or Title	

1. List all the ranges that your activity maintains and operates. Provide the following information on each range:

   a. A brief statement of what the range is used for.

   b. Geographic location of the range.

   c. Distance from the range to the activity's headquarters facility (main site).

   d. Range size in square miles.

   e. Scheduling authority.

   f. Air space available/restrictions.

   g. Maximum water depth available/restrictions.

   h. Instrumentation capability.

   i. Accuracy of tracking.

   j. Data collection/replay capability.

   k. What are the maximum hours per year that this range is available to support activities? Provide the actual hours that the range was up and capable of providing services. Do not count "down time" due to maintenance, reconfiguration, or administrative activities (i.e., Holiday shutdowns).

   l. What were the actual hours this range was utilized per year for the last five years (FYs 1989-1993)?

   m. What were the actual hours that this range was utilized in FY1993?

   n. Who are the customers of the range?

   o. Of the actual hours utilized what percentage of utilization time was provided to which customers?

   p. Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones?

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NAWCAD LAKEHURST
DATA CALL 5
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

MAY 12 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION PATUXENT RIVER, MD
Activity

*NAVAIR did not provide data for inclusion in this package.

Data Call #5
Change #1
Lakehurst

Pg 6, 7, 8, 10, 11

162

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 Sept 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/23/94
Date

DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER
NAVAL AIR WARFARE CENTER HEADQUARTERS
1421 JEFFERSON DAVIS HWY
ARLINGTON VA 22243

IN REPLY REFER TO
1000
Ser NAWC-21C/

SEP 16 1994

From: Commander, Naval Air Warfare Center
To: Distribution

Subj: RELEASE OF BASE REALIGNMENT AND CLOSURE DATA CALL IN THE ABSENCE OF THE COMMANDER

1. During the period 19-21 September I will be on travel.

2. Mr. Lewis L. Lundberg, Technical Director, Naval Air Warfare Center, is designated as acting as Acting Commander during this period. As such, he is authorized to release completed Base Realignment and Closure Data Calls and to provide certification for the data calls.

W. E. Newman

W. E. NEWMAN

Distribution:
COMNAVAIRWARCENWPNDIV
COMNAVAIRWARCENACDIV
NAVAIRWARTRASYSDIV

DATA CALL 5
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

2 Sept 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ
Activity

Data Call #5
BSAT Clarifications
Lakehurst

UIC N68555

162

Crime Rate

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 Sep 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/23/94
Date

DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER
NAVAL AIR WARFARE CENTER HEADQUARTERS
1421 JEFFERSON DAVIS HWY
ARLINGTON VA 22243

IN REPLY REFER TO
1000
Ser NAWC-21C/

SEP 16 1994

From: Commander, Naval Air Warfare Center
To: Distribution

Subj: RELEASE OF BASE REALIGNMENT AND CLOSURE DATA CALL IN THE ABSENCE OF THE COMMANDER

1. During the period 19-21 September I will be on travel.

2. Mr. Lewis L. Lundberg, Technical Director, Naval Air Warfare Center, is designated as acting as Acting Commander during this period. As such, he is authorized to release completed Base Realignment and Closure Data Calls and to provide certification for the data calls.

W. E. Newman

W. E. NEWMAN

Distribution:
COMNAVAIRWARCENWPNDIV
COMNAVAIRWARCENACDIV
NAVAIRWARTRASYSDIV

N68335

DATA CALL #5
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

CAPTAIN JOHN B. PATTERSON
NAME (Please type or print)

J B Patterson
Signature

SEP 16 1994
Date

ACTING COMMANDER
Title

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ

DATA CALL #5
Audit Changes
Lakehurst

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 Sep 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/29/94
Date

DATA CALL 5
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

2 Sept 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ
Activity

Document Separator

N68335

CAPACITY ANALYSIS:
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY: NAWCADLKE

Table of Contents

Section	Page
1. Historical and Projected Workload	1
2. Current Class 2 Assets	13
3. Class 2 Space Available for Expansion	21
4. Class 1 Space Available for Expansion	23
5. Base Infrastructure Capacity	25
6. Ship Berthing Capacity	29
7. Operational Airfield Capacity	29
8. Depot Level Maintenance Capacity	29
9. Ordnance Storage Capacity	29

TAB A: Ship Berthing Capacity
TAB B: Operational Airfield Capacity
TAB C: Depot Level Maintenance Capacity
TAB D: Ordnance Storage Capacity

**********If any responses are classified, attach a separate classified annex. **********

7 April 1994

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1. Historical and Projected Workload. Use Tables 1.1, 1.2, 1.3 & 1.4 below to provide historical and currently projected workload data for your activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Dollar amounts should be in then-year dollars. Workyears should be separated for in-house government efforts and on-site contractor work.

a. Use Table 1.1 to provide data on your site.

b. Use Table 1.2 to provide data on your Detachments that did not receive this Data Call directly. Compile the information from all of these Detachments into one table. Attach a list of the titles & UIC's of the Detachments included in the table.

c. For FY's 1993 thru 1997 provide a breakout of the "Total Funds Budgeted" line showing the appropriation and amounts of funding budgeted from your major customers. Major resource Sponsors are defined as, but not limited to, all systems commands, ONR, SSPO, CNO, FLT CINCs, Other DON, Other DOD by Department, Other Federal Government, All other. Use Table 1.3 to report this breakout for your site. Use Table 1.4 to report this breakout for your compiled Detachments that did not receive this Data Call directly. Provide separate tables for FY's 1993 thru 1997.

Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

In-House government efforts or In-House workyears: Includes both military and civil servant employees

On-Site Contractor workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

On-site Contractors: Those contractors that occupy space directly on the site on nearly a full time basis.

Total Funds Budgeted: The funds used as inputs to the President's Budget.

Civilian Personnel On-Board: Full Time Permanent employees (FTP).

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

DATA CALL 4

N68335

Revised pg

Table 1.1 Historical and Projected Workload for NAWCADLKE (UIC N68335)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	**	134,750	**	**	2,545	140
87	103,345	99,795	**	2,619	2,495	182
88	204,208	173,613	**	2,532	2,519	214
89	191,228	178,685	**	2,492	2,479	218
90	233,027	172,595	115,618	2,567	2,502	134
91	162,765	179,163	123,140	2,428	2,350	144
92	175,202	167,336	119,835	2,320	2,308	184
93	209,863	219,147	348,030*	2,190	2,184	219
94	179,214	XXXXX	XXXXX	1,967	XXXXX	XXXXX
95	194,168	XXXXX	XXXXX	1,779	XXXXX	XXXXX
96	180,646	XXXXX	XXXXX	1,885 (R)	XXXXX	XXXXX
97	171,145	XXXXX	XXXXX	1,825	XXXXX	XXXXX

(R)

*The increase in DIRCITE (FY93) obligated authority is due to Headquarters SEPO responsibilities being decentralized and transitioned to NAWCADLKE.

Military Workyears are not included.
**Not Available

ENCLOSURE (2)

Table 1.1 Historical and Projected Workload for NAWCADLKE (UIC N68335)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	**	134,750	**	**	2,545	140
87	103,345	99,795	**	2,619	2,495	182
88	204,208	173,613	**	2,532	2,519	214
89	191,228	178,685	**	2,492	2,479	218
90	233,027	172,595	115,618	2,567	2,502	134
91	162,765	179,163	123,140	2,428	2,350	144
92	175,202	167,336	119,835	2,320	2,308	184
93	209,863	219,147	348,030*	2,190	2,184	219
94	179,214	XXXXX	XXXXX	1,967	XXXXX	XXXXX
95	194,168	XXXXX	XXXXX	1,779	XXXXX	XXXXX
96	180,646	XXXXX	XXXXX	1,845	XXXXX	XXXXX
97	171,145	XXXXX	XXXXX	1,825	XXXXX	XXXXX

***The increase in DIRCITE (FY93) obligated authority is due to Headquarters SEPO responsibilities being decentralized and transitioned to NAWCADLKE.**

Military Workyears are not included.

****Not Available**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.2 Historical and Projected Workload for Detachments of NAWCADLKE (UIC N68335)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	N/A					
87	N/A					
88	N/A					
89	N/A					
90	N/A					
91	N/A					
92	N/A					
93	N/A					
94	11,042.4	XXXXX	XXXXX	98	XXXXX	XXXXX
95	12,704.5	XXXXX	XXXXX	102	XXXXX	XXXXX
96	13,372.3	XXXXX	XXXXX	102	XXXXX	XXXXX
97	13,953.4	XXXXX	XXXXX	102	XXXXX	XXXXX

Note: **(1) Detachment data is not available in Fiscal years 86 thru 93. Table 1.1 includes all (Detachment and Non-Detachment) data for these years.**

(2) NAWCADLKE Detachments (UIC N68335)

ASIR Norfolk
SURFLANT Norfolk
- **Mayport**
- **Charleston**
- **Pascagoula**
- **San Diego**

SURFPAC San Diego
- **Oakland**
- **Long Beach**
- **Pearl Harbor**

AIRLANT CAFSU Norfolk
- **Norfolk**
- **Portsmouth**
- **Newport News**
- **Philadelphia**
- **Mayport**

AIRPAC San Diego
- **Alameda**
- **Puget Sound**
- **Yokosuka**

EASU Cherry Point
- **El Toro**
- **29 Palms**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	SCN	Other Navy	All Other
NAVAIR	0	0	318.5	6012.0	10092.1	55.0	4020.9	11587.0	34830.3 (R)	63324.3	7005.9 (R)	8068.9 (R)	0	8848.0
NAVSEA	0	0	589.5	0	0	53.0	0	0	0	0	100.0	0	0	0
DPSDO	0	0	0	0	0	0	0	0	0	0	0	0	0	37.8
SPAWAR	0	0	0	0	0	0	0	0	20.7	0	0	0	0	0
NAVSUP	0	0	0	0	0	0	0	0	0	0	0	0	25.0	0
ONR	227.0	1320.1	0	0	0	0	0	0	0	0	0	0	0	0
DLA	0	0	0	0	0	0	0	0	0	0	0	0	0	140.0
SEALIFT	0	0	0	0	0	0	0	0	0	0	0	0	35.0	0
EPA	0	0	0	0	0	0	0	0	0	0	0	0	0	255.0
OTHER DON	0	0	0	0	0	0	0	0	2773.0	95.3	11.3	0	8724.8	0
OTHER GOVT	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	307.2
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	150.0
VARIOUS	0	125.0	445.0	0	1743.0	33.2	0	0	1373.7	360.7	0	165.0	0	5932.6

Revised pg

TABLE 1.3 FY 1994(R) 16 AUG 94

Table 1.3 FY 1993 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVAIR	0	3112	0	9139	7577	95	3127	0	49830	68099	18228	615	7054	6745	9418
SPAWAR	0	0	0	0	-2	0	0	0	31	0	0	0	0	0	0
NAVSEA	0	0	0	0	864	0	0	0	-3	0	420	0	4	0	26
NAVSUP	0	0	0	0	0	0	0	0	410	0	0	0	0	200	0
OCNR	0	0	0	0	3307	0	0	0	8399	275	0	0	0	0	795
OTHER NAVY	0	0	0	0	0	0	0	0	0	0	0	0	0	12844	0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	479
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6453
OTHER DOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1528
OTHER GOVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
PRI PARTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
TOTAL	0	3112	0	9139	11746	95	3127	0	58667	68374	18648	615	7058	19789	18777

This table reflects FY93 actual funds received which matches the Total Funds Received without Direct Site on Table 1.1.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	SCN	Other Navy	All Other
NAVAIR	0	0	318.5	6012.0	10092.1	55.0	4020.9	11587.0	44174.7	63324.3	7811.2	8861.6	0	8848.0
NAVSEA	0	0	589.5	0	0	53.0	0	0	0	0	100.0	0	0	0
DPSDO	0	0	0	0	0	0	0	0	0	0	0	0	0	37.8
SPAWAR	0	0	0	0	0	0	0	0	20.7	0	0	0	0	0
NAVSUP	0	0	0	0	0	0	0	0	0	0	0	0	25.0	0
ONR	227.0	1320.1	0	0	0	0	0	0	0	0	0	0	0	0
DLA	0	0	0	0	0	0	0	0	0	0	0	0	0	140.0
SEALIFT	0	0	0	0	0	0	0	0	0	0	0	0	35.0	0
EPA	0	0	0	0	0	0	0	0	0	0	0	0	0	255.0
OTHER DON	0	0	0	0	0	0	0	0	2773.0	95.3	11.3	0	8724.8	0
OTHER GOV'T	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	307.2
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	150.0
VARIOUS	0	125.0	445.0	0	1743.0	33.2	0	0	1373.7	360.7	0	165.0	0	5932.6

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	SCN	Other Navy	All Other
NAVAIR	0	0	150.0	10495.0	7742.0	25.0	4761.0	1160.0	55930.3	52187.5	10308.0	17762.4	0	11266.0
NAVSEA	0	0	763.3	0	0	130.0	0	0	0	0	164.3	0	0	0
DPSDO	0	0	0	0	0	0	0	0	0	0	0	0	0	161.6
NAVSUP	0	0	0	0	0	0	0	0	0	0	0	0	34.3	0
ONR	0	1710.0	0	0	0	0	0	0	0	0	0	0	0	0
SEALIFT	0	0	0	0	0		0	0	0	0	0	0	45.3	0
NSWC	0	0	0	0	0	0	0	0	0	0	0	0	154.0	0
EPA	0	0	0	0	0	0	0	0	0	0	0	0	0	164.5
OTHER DON	0	0	0	0	0	0	0	0	1339.0	610.0	0	0	10123.5	0
OTHER GOV'T	0	0	0	0	0	0	0	0	0	0	0	0	0	438.0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	273.0
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	775.0
VARIOUS	0	0	0	0	1000.0	0	0	0	1000.0	0	0	0	0	3465.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	SCN	Other Navy	All Other
NAVAIR	0	0	150.0	4728.0	20519.0	25.0	7283.0	0	49304.1	50891.3	6811.0	11905.6	0	8817.0
NAVSEA	0	0	795.0	0	0	97.0	0	0	0	0	172.1	0	0	0
DPSDO	0	0	0	0	0	0	0	0	0	0	0	0	0	169.4
NAVSUP	0	0	0	0	0	0	0	0	0	0	0	0	35.8	0
ONR	0	2140.0	0	0	0	0	0	1000.0	0	0	0	0	0	0
SEALIFT	0	0	0	0	0	0	0	0	0	0	0	0	47.2	0
NSWC	0	0	0	0	0	0	0	0	0	0	0	0	93.9	0
EPA	0	0	0	0	0	0	0	0	0	0	0	0	0	171.9
OTHER DON	0	0	0	0	0	0	0	0	1351.0	0	0	0	7536.0	0
OTHER GOV'T	0	0	0	0	0	0	0	0	0	0	0	0	0	9.0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	280.0
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	775.0
VARIOUS	0	0	0	0	1000.0	0	0	0	1000.0	0	0	0	0	3498.2

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	SCN	Other Navy	All Other
NAVAIR	0	0	150.0	4651.0	14626.0	25.0	0	0	51216.2	58441.9	6617.0	6775.9	0	7982.0
NAVSEA	0	0	836.0	0	0	0	0	0	0	0	0	0	0	0
DPSDO	0	0	0	0	0	0	0	0	0	0	0	0	0	290.0
NAVSUP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ONR	0	2105.0	0	0	0	0	0	1100.0	0	0	0	0	0	0
OTHER DON	0	0	0	0	0	0	0	0	1378.0	0	0	0	8222.0	0
OTHER GOV'T	0	0	0	0	0	0	0	0	0	0	0	0	0	8.0
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	286.0
AIR FORCE	0	0	0	0	0	0	0	0	0	0	0	0	0	775.0
VARIOUS	0	0	0	0	1000.0	0	0	0	1000.0	0	0	0	0	3617.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.4 FY 1994 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVAIR									9,344.4		805.3		792.7		100.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TABLE 1.4 FY 1995 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NACWADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVAIR									10,754.5		1,150.0		700.0		100.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TABLE 1.4 FY 1996 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E		Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVAIR									10,222.3		2,000.0		1,000.0		150.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TABLE 1.4 FY 1997 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NAWCADLKE (UIC N68335)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVAIR									10,403.4		2,200.0		1,200.0		150.0

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

2. **Current Class 2 Assets.** Complete Tables 2.1 thru 2.6 below as directed. Tables 2.1, 2.2 & 2.3 will define the Class 2 property owned or leased by your activity (less Detachments). Tables 2.4, 2.5 & 2.6 will define the combined Class 2 assets owned or occupied at your Detachment sites which did not receive this Data Call directly. Report space holdings and assignments as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions such as previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD. Square footage of space is to be reported in "Gross Floor/Building Area" (GF/BA) as defined in NAVFAC P-80. Many of the P80 Category Code Numbers (CCN's) have assets that are reported in units of measure other than square feet (SF). The only unit of measure desired for this Data Call is SF. Only report the assets in each CCN that are normally reported in SF.

For your Site:

a. Use Table 2.1 below to indicate the total amount of Class 2 space at your site for which you are the plant account holder as of 31 March 1994.

b. Use Table 2.2 below to indicate the total amount of your Class 2 space reported in Table 2.1 that is assigned to your tenant commands and/or independent activities at your site as of 31 March 1994.

c. Use Table 2.3 below to indicate the total amount of Class 2 space, for which you are not the plant account holder, but which is utilized/leased by you (less Detachments). Provide numbered notes to identify the title and UIC of the plant account holder/lessor, quantity of leased space and the associated lease cost.

d. In accourdance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means." For all the categories above where Inadequate facilities are identified provide the following information:

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.1 Main Site Class 2 Assets of NAWCADLKE (UIC N68335)

Building type	NAVFAC (P-80) Category Code	Gross Floor/Building Area (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**	**224**	**13**		**237**
Maintenance & Production	**200**	**733**	**18**		**751**
Science labs	**310**	**29**			**29**
Aircraft labs	**311**	**543**	**13**	**4 (A)**	**560**
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**	**27**			**27**
Ammunition, Explosives, & Toxics labs	**316**				
Electrical Equip. labs	**317**	**12**			**12**
Propulsion labs	**318**	**5**			**5**
Miscellaneous labs	**319**	**40**	**4**		**44**
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**	**244**	**90**		**334**
Hospital & other Medical	**500**	**17**			**17**
Administrative Facilities	**600 (1)**	**175**	**10**		**185**
Housing & Community	**700 (2)**	**659**	**20**	**1 (B)**	**679**
Utilities & Grounds	**800 (3)**	**56**			**56**
Other					
Totals		**2,763**	**168**	**5**	**2,936**

(A)
(1) Facility type/code: **Permanent - 311-30 2nd floor.**
(2) What makes it inadequate? **Wall, floor,ceilings have extensive termite and water damage which is a safety problem.**
(3) What use is being made of the facility? **It is presently being used as lab space. Until new space is completed under N68335-93-C-5529 schedule, May 94.**
(4) What is the cost to upgrade the facility to substandard **$350k**.
(5) what other use could be made of the facility and at what cost? **None.**
(6) current improvement plans and programmed funding: **It has been recommended for demolition.**
(7) Has this facility condition resulted in C3 or C4 designation on your BASEREP? **Yes, C3.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(B)
(1) Facility type/code: **Permanent - 730 - 75.**
(2) What makes it inadequate? **Septic system disbanded and would require a costly run to a force main. All head facilities have been removed.**
(3) What use is being made of the facility? **Recreational storage for product evaluation and verification department personnel.**
(4) What is the cost to upgrade the facility to substandard? **$200k.**
(5) What other use could be made of the facility and at what cost? **None. Recommend it remain as a recreational storage facility with no cost spent on facility.**
(6) Current improvement plans and programmed funding: **None.**
(7) Has this facility condition resulted in c3 or c4 designation on your baserep? **No.**

(1) P-232 "modifications to administration facility NAESU". Provides adequate administrative space for (NAESU) Naval Aviation Engineering Services unit personnel being relocated from naval base, Philadelphia as result of brac 91. $1,770,000 This project converts 16,220 square ft of vacant 730-43 space and 3,564 square feet of sub-standard 610-10 space into adequate 19,784 610-10 space. Estimate award Jun 94. Estimated bod Apr 95.

(2) P-234 child care center provides a modern child care support facility that meets the latest navy standards for dependent children (6 to 12 yrs old) of on-board military and dod civilian personnel. $1,300,000 Project will provide 10,335 sf of permanent space allowing replacement of class 3 leased spaced. Estimate award FY96 Estimate bod FY97.

(3) P-211 addition to potable water system. Rehab wells, dig well, build treatment facility, add storage tank replace deteriorated piping and complete loops to preclude disruption of service. Assures compliance with new jersey water quality standards. $2,950,000 Project will provide an additional 1,100 sf of 841-09 space. Estimate award FY95 Estimate bod Jan 96

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.2 Main Site Class 2 Space of NAWCADLKE (UIC N68335) Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
NMCB 21; Lakehurst NJ	N08861	100 700	19.1 0.3
DEF PRNTSERVDET BROFF; Lakehurst NJ	N43633	200	8.8
DEF COMM AGENCY; Lakehurst NJ	N49190	700	15.5
NAVAIRWARCENACDIV Trenton NJ	N62376	318 800	5.2 0.4
NAVDENCLINIC Phila PA	N62842	500	3.7
NATTC Lakehurst NJ	N63094	100	128.1
NAVMEDCLINIC Phila PA	N68101	500	13.3
PERSUPPACT Phila PA	N68629	600	4.8
AEESA	WRBYAA	200 600	206.5 5.3
DARRISSA	WZZ321	200 310 400	83.1 4.0 3.0
DRMO	SX1272	400	71.7
NAVEXCH Lakehurst NJ	N66256	700	15.9
ROICC	N44207	600	4.0
		Total:	592.7

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.3 Class 2 Space Utilized/Leased by NAWCADLKE (UIC N68335)*

*** DOES NOT APPLY TO NAWCAD LAKEHURST. (R)**

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**				
Maintenance & Production	**200**				
Science labs	**310**				
Aircraft labs	**311**				
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**				
Ammunition, Explosives, and Toxics labs	**316**				
Electrical Equip. labs	**317**				
Propulsion labs	**318**				
Miscellaneous labs	**319**				
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**				
Hospital & other Medical	**500**				
Administrative Facilities	**600**				
Housing & Community	**700**				
Utilities & Grounds	**800**				
Other					
	Totals				

For your Detachment sites not receiving this Data Call directly:

e. Use Table 2.4 below to indicate the combined total amount of Class 2 space that is occupied by your Detachments for which you are the plant account holder as of 31 March 1994. Attach a list with the titles and UIC's of these Detachments.

f. Use Table 2.5 below to indicate the total amount of your Class 2 space reported in Table 2.4 that is assigned to tenant commands and/or independent activities as of 31 March 1994. Include numbered notes to indicate the Detachment site that hosts the tenant.

g. Use Table 2.6 below to indicate the combined total amount of Class 2 space utilized/leased by your Detachments for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

Table 2.3 Class 2 Space Utilized/Leased by NAWCADLKE (UIC N68335)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**				
Maintenance & Production	**200**				
Science labs	**310**				
Aircraft labs	**311**				
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**				
Ammunition, Explosives, and Toxics labs	**316**				
Electrical Equip. labs	**317**				
Propulsion labs	**318**				
Miscellaneous labs	**319**				
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**				
Hospital & other Medical	**500**				
Administrative Facilities	**600**				
Housing & Community	**700**				
Utilities & Grounds	**800**				
Other					
	Totals				

For your Detachment sites not receiving this Data Call directly:

e. Use Table 2.4 below to indicate the combined total amount of Class 2 space that is occupied by your Detachments for which you are the plant account holder as of 31 March 1994. Attach a list with the titles and UIC's of these Detachments.

f. Use Table 2.5 below to indicate the total amount of your Class 2 space reported in Table 2.4 that is assigned to tenant commands and/or independent activities as of 31 March 1994. Include numbered notes to indicate the Detachment site that hosts the tenant.

g. Use Table 2.6 below to indicate the combined total amount of Class 2 space utilized/leased by your Detachments for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.4 Class 2 Assets of NAWCADLKE (N68335) Occupied by Detachments*

* DOES NOT APPLY TO NAWCAD LAKEHURST. (R)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**				
Maintenance & Production	**200**				
Science labs	**310**				
Aircraft labs	**311**				
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**				
Ammunition, Explosives, and Toxics labs	**316**				
Electrical Equip. labs	**317**				
Propulsion labs	**318**				
Miscellaneous labs	**319**				
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**				
Hospital & other Medical	**500**				
Administrative Facilities	**600**				
Housing & Community	**700**				
Utilities & Grounds	**800.**				
Other					
	Totals				

h. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

(1) Facility type/code:
(2) What makes it inadequate?
(3) What use is being made of the facility?
(4) What is the cost to upgrade the facility to substandard?
(5) What other use could be made of the facility and at what cost?
(6) Current improvement plans and programmed funding:
(7) Has this facility condition resulted in C3 or C4 designation on your BASEREP?

Table 2.4 Class 2 Assets of NAWCADLKE (N68335) Occupied by Detachments

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**				
Maintenance & Production	**200**				
Science labs	**310**				
Aircraft labs	**311**				
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**				
Ammunition, Explosives, and Toxics labs	**316**				
Electrical Equip. labs	**317**				
Propulsion labs	**318**				
Miscellaneous labs	**319**				
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**				
Hospital & other Medical	**500**				
Administrative Facilities	**600**				
Housing & Community	**700**				
Utilities & Grounds	**800**				
Other					
	Totals				

h. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

(1) Facility type/code:
(2) What makes it inadequate?
(3) What use is being made of the facility?
(4) What is the cost to upgrade the facility to substandard?
(5) What other use could be made of the facility and at what cost?
(6) Current improvement plans and programmed funding:
(7) Has this facility condition resulted in C3 or C4 designation on your BASEREP?

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.5 Class 2 Space at Detachment Sites of NAWCADLKE (UIC: N68335) Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA (KSF) Assigned
Name	UIC		
N/A			
		Total:	

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.6 Class 2 Space Utilized/Leased by Detachments of NAWCADLKE (UIC N68335)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	**100**				
Maintenance & Production	**200**				
Science labs	**310**				
Aircraft labs	**311**				
Missile and Space labs	**312**				
Ship and Marine labs	**313**				
Ground Transportation labs	**314**				
Weapon and Weapon Systems labs	**315**				
Ammunition, Explosives, and Toxics labs	**316**				
Electrical Equip. labs	**317**				
Propulsion labs	**318**				
Miscellaneous labs	**319**				
Underwater Equip. labs	**320**				
Technical Services labs	**321**				
Supply Facilities	**400**				
Hospital & other Medical	**500**				
Administrative Facilities	**600**	**20.5**			**20.5**
Housing & Community	**700**				
Utilities & Grounds	**800**				
Other					
Totals		**20.5**			**20.5**

All space utilized on no cost basis.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

3. **Class 2 Space Available for Expansion.** An activity's expansion capability is a function of it's ability to reconfigure and/or expand existing facilities to accept new or increased roles. Such a reconfiguration may require rehabilitation or buildout of a space to support the new or expanded role. A space expansion could include converting an underutilized storage space into laboratory spaces, or buildout of a high bay area into a multifloor office/laboratory space. All questions refer to Class 2 property for which you are the plant account holder as of 31 March 1994. Do not report any currently programmed changes or additions previously reported in question #2 above. Expansion opportunities must follow the guidance of NAVFAC P-80 for the appropriate facility category code, as well as applicable fire and safety codes. Personnel loading density should not exceed those specified in the P-80. Space is only available if it is currently unoccupied or the current occupants are officially designated for relocation. Report space as Net Floor Area (NFA) as defined in the P-80. Do not include opportunities that are being reported by your Detachments who received this Data Call directly. Reported expansion opportunities must be able to accommodate the necessary ancillary facilities and equipment, such as adequate parking space, required to support the amount of people projected.

a. What is the maximum quantity of space that could be made available for expansion to accommodate other functions and/or increased efforts? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. **414,000 SQFT.**

b. How much of the space reported in question 3.a. above is currently available with minimal or no reconfiguration costs? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. SQFT. **211 - 40,000 SF & 610 - 3,000 SF.**

c. Use Table 3.1 below to indicate the constrained growth opportunities for accepting expanded or new roles. Constrained growth is defined as growth limited to buildings and structures currently on your Class 2 plant account. Add numbered notes to highlight and explain opportunities that require remediation or waiver of a restriction or encumbrance as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. The "Current NFA (KSF)" column total should match the quantity provided in question #3.a. above. Annotate those opportunities that were used to obtain the answer to question #3.b. above. Report space once, do not use the same space for different expansion opportunities. Include in this table space that will become available once planned downsizing (separate from BRAC realignments) has been completed, provide the estimated completion date of the downsizing effort.

d. Use Table 3.2 below to indicate additional unconstrained growth opportunities for accepting expanded or new roles. Unconstrained growth allows for construction of new facilities on existing buildable Class 1 property. The only constraint being that the land must currently be on your plant account holdings as of 31 March 1994 and free of existing land use constraints. Limit new buildings to three stories. Add numbered notes to highlight and explain additional opportunities that would require remediation or waiver of a land use constraint as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 3.1 Constrained Class 2 Space Available for Expansion at NAWCADLKE (UIC N68335)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion NFA (KSF)	# of Personnel	Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
B #1/171	10				1,207
Hgr. 6/211	286			174	7,210
B #307/211	40			48	- (A)
B #1/311	6	6	43	24	1,397
B #1/310	3				350 (B)
B #129/610	3				- (C)
B #329/610	3				353
B #120/160	3				356
B #26/610	11				1,696 (D)
B #480/721	11				550 (E)
Totals	376	6	43	246	13,119

(A) 40,000 sf of aircraft maintenance space available in westfield hangar available with no reconfiguration cost. The U.S army communications electronics command (CECOM) has signed an issa to utilize this space in FY95 . The US Coast Guard (UACG) will renovate the space in FY96 for FY97 occupancy. Reference Naval Air Systems Command letter Ser NAWC/0967 dated 23 March 94.

(B) 5,589 sf of hangar 1 lean-to space has a height of 24ft. A second floor could be added. If this was used for personnel, this would equate to 43 people.

(C) 3,000 sf of admin. Space available in b#129 (Supply/Contracts bldg) with no reconfiguration cost.

(D) Building #26 occupants will re relocating to b150 in Nov. 94. This facility will be vacant with no planned use.

(E) This space will be used by the U.S. Coast Guard in FY96. See note (a), above.

(F) In accordance with latest BFR, existing occupied space could be reduced to allow additional space for expansion in the admin (610) and R&D (311) office areas.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 3.2 Unconstrained Class 2 Space Available for Expansion at NAWCADLKE (UIC N68335)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	**# of Personnel**		
B #301/211		**15**			**1,876 (A)**
B #1/311		**8**	**59**		**1,208 (B)**
610 (C)		**15**	**115**		**2,295**
Totals		**38**	**174**		**5,379**

(A) Westfield hangar could accommodate a two story lean-to addition on the north-side of building, similar to the existing lean-to on south side. See note (a) from table 3.1.
(B) A second deck can be added inside hangar 1 over existing vacant space on south lean-to.
(C) Both b#120, 129 and 329 could accommodate additions for admin. Space.

4. Class 1 Space Available for Expansion.

a. Identify in Table 4.1 below the real estate resources which have the potential to facilitate future development, and for which you are the plant account holder as of 31 March 1994, or into which, though a tenant, your activity could reasonably expect to expand. Complete a separate table for each individual site (i.e., main base, outlying airfields, special off-site areas, etc.) and Detachment that did not receive this Data Call directly. The unit of measure is acres. Developed area is defined as land currently with buildings, roads, and utilities where further development is not possible without demolition of existing improvements. Include in "Restricted" acreage that is restricted for future development due to environmental constraints (e.g. wetlands, landfills, archaeological sites), operational restrictions (e.g. ESQD arcs, HERO, HERP, HERF, AICUZ, ranges) or cultural resources restrictions. Identify the reason for the restriction when providing the acreage in the table. Specify any entry in "Other" (e.g. submerged lands).

b. Are there any constraints such as parking, utilities, legal restrictions that limit the potential for using Undeveloped land for expansion?

Expansion in undeveloped land would require a permit approval from the New Jersey Pinelands Commission. Additional parking and utilities will have to be provided for any expansion.

c. Explain the radio frequency constraints/opportunities within your Class 1 holdings.

None. The most recent Hazardous Electrical Radiation to Ordinances survey indicates that no constraints exist due to Electromagnetic Radiation under our present operating conditions. There are numerous opportunities for expansion of radio frequency transmitters to be sited without constraining expansion of other type of facilities.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Class 1 Resources of NAWCADLKE (UIC: N68335)
Site Location: Main Site_

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	**35**	**25**	**4 (1)**	**6**
Operational	**1011**	**99**	**751 (2)**	**161**
Training	**903**	**523**	**377 (3)**	**3**
R & D	**2048**	**657**	**772 (4)**	**619**
Supply & Storage	**168**	**76**	**77 (5)**	**15**
Admin	**28**	**9**		**19**
Housing	**156**	**72**		**84**
Recreational	**191**	**113**	**44 (6)**	**34**
Navy Forestry Program	**2890**		**(7)**	
Navy Agricultural Outlease Program				
Hunting/Fishing Programs			**(8)**	
Other				
Total:	**7430**	**1574**	**2025**	**941**

(1) Restricted because of environmental remediation.
(2) Restricted because of aicuz clear zones.
(3) Restricted because of historical purposes west of hangar 1 and range impact area at pistol range.
(4) Restricted because of aicuz clear zones.
(5) Restricted because of environmental remediation and esqd's.
(6) Restricted because of wetlands and remediation.
(7) The actual forestry program includes 4, 117 acres which is included in the various available for development acres.
(8) This area is included in the forestry program, as this number is not separable.

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? **510 Acres.** Explain. **This land is located on the main portion of the base and have existing roadways running through them but all areas will require utility upgrades.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

5. Base Infrastructure Capacity. Provide base infrastructure data as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions driven by previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD.

a. Utilize Table 5.1 below to provide information on your activity's base infrastructure capacity and load. Do not report this information if you are a tenant activity.

Table 5.1 Base Infrastructure Capacity & Load

	On Base Capacity	Off base long term contract	Normal Steady State Load	Peak Demand
Electrical Supply (KW)	3,422(R)	30,000(1)	6,000	8,000
Natural Gas (CFH)	0	2,500,000 (2)	3,800	5,000
Sewage (GPD)	0	1,500,000 (3)	191,000	860,000
Potable Water (GPD)	864,000		250,000	350,000
Steam (PSI & lbm/Hr)	186,000 (4)		48,000 (4)	110,000(4)
Long Term Parking	N/A			
Short Term Parking (SY)	240,010 (5)		180,008 (6)	204,009 (6)

(R)

(1) As PER JCP&L REP. 4/20/94.
(2) As PER NJ National Gas Company Rep. 4/21/94.
(3) As per Ocua Rep. 4/20/94.
(4) At 125 psi
(5) Based on data from property record cards for CAT Code 852-10. Also included is a parking area programmed under milcon P-232, this project provides space for Naval Aviation Engineering Service Unit (NAESU) personnel being relocated from Naval Base, Philadelphia. Projected award date June 94, construction start date July 94 and construction complete date April 95.
(6) The normal steady state load is 75% and peak demand is 85% based on a traffic engineering study dated September 88.

b. Maintenance, Repair & Equipment Expenditure Data: Use Table 5.2 below to provide data on facilities and equipment expenditures at your activity. Project expenditures to FY 1997. Do not include data on Detachments who have received this Data Call directly. Do not report this information if you are a tenant activity. The following definitions apply:

Maintenance of Real Property (MRP) Dollars: MRP is a budgetary term used to gather the expenses or budget requirements for facility work including recurring maintenance, major repairs & minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call MRP includes all M1/R1 and M2/R2 expenditures.

Current Plant Value (CPV) of Class 2 Real Property: The hypothetical dollar amount to replace a Class 2 facility in kind with today's dollars. Example: the cost today to replace a wood frame barracks with a wood frame barracks.

5. Base Infrastructure Capacity. Provide base infrastructure data as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions driven by previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD.

a. Utilize Table 5.1 below to provide information on your activity's base infrastructure capacity and load. Do not report this information if you are a tenant activity.

Table 5.1 Base Infrastructure Capacity & Load

	On Base Capacity	Off base long term contract	Normal Steady State Load	Peak Demand
Electrical Supply (KW)	**1,505**	**30,000(1)**	**6,000**	**8,000**
Natural Gas (CFH)	**0**	**2,500,000 (2)**	**3,800**	**5,000**
Sewage (GPD)	**0**	**1,500,000 (3)**	**191,000**	**860,000**
Potable Water (GPD)	**864,000**		**250,000**	**350,000**
Steam (PSI & lbm/Hr)	**186,000 (4)**		**48,000 (4)**	**110,000(4)**
Long Term Parking	**N/A**			
Short Term Parking (SY)	**240,010 (5)**		**180,008 (6)**	**204,009 (6)**

(1) As PER JCP&L REP. 4/20/94.
(2) As PER NJ National Gas Company Rep. 4/21/94.
(3) As per Ocua Rep. 4/20/94.
(4) At 125 psi
(5) Based on data from property record cards for CAT Code 852-10. Also included is a parking area programmed under milcon P-232, this project provides space for Naval Aviation Engineering Service Unit (NAESU) personnel being relocated from Naval Base, Philadelphia. Projected award date June 94, construction start date July 94 and construction complete date April 95.
(6) The normal steady state load is 75% and peak demand is 85% based on a traffic engineering study dated September 88.

b. Maintenance, Repair & Equipment Expenditure Data: Use Table 5.2 below to provide data on facilities and equipment expenditures at your activity. Project expenditures to FY 1997. Do not include data on Detachments who have received this Data Call directly. Do not report this information if you are a tenant activity. The following definitions apply:

Maintenance of Real Property (MRP) Dollars: MRP is a budgetary term used to gather the expenses or budget requirements for facility work including recurring maintenance, major repairs & minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call MRP includes all M1/R1 and M2/R2 expenditures.

Current Plant Value (CPV) of Class 2 Real Property: The hypothetical dollar amount to replace a Class 2 facility in kind with today's dollars. Example: the cost today to replace a wood frame barracks with a wood frame barracks.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Acquisition Cost of Equipment (ACE): The total cumulative acquisition cost of all "personal property" equipment maintained at your activity which includes the cost of installed equipment directly related to mission execution, such as lab test equipment. Class 2 installed capital equipment that is an integral part of the facility will not be reported as ACE.

Table 5.2 Maintenance, Repair & Equipment Expenditure Data for NAWCADLKE (UIC: N68335)

Fiscal Year	MRP ($M)	CPV ($M)	ACE ($M)
1985	NOT AVAILABLE	718	26.9
1986	3.7	735	26.4
1987	4.7	742	29.3
1988	6.2	783	30.9
1989	9.2	799	31.7
1990	9.3	820	33.8
1991	8.7	830	37.6
1992	8.4	848	37.0
1993	10.3	845	36.3
1994	17.2 (2)	858 (1)	36.3
1995	19.6 (2)	871	40.6
1996	15.8 (2)	884	45.8
1997	14.8 (2)	897	49.1

NOTES: (1) Estimated on a 1.5% increase in cost per year.
(2) Increase in FY94 and beyond is attributed to NAVAIRSYSCOM OM&N control numbers, a one-time increase of DBOF M&R funding for FY94 and an anticipated increase of CPP minor construction funding in FY95.

FOR OFFICIAL USE ONLY
PRE-DECISIONAL INFORMATION

c. Training Facilities:

(1) By facility Category Code Number (CCN), provide the usage requirements for each course of instruction required for all formal schools on your installation. A formal school is a programmed course of instruction for military and/or civilian personnel that has been formally approved by an authorized authority (ie: Service Schools Command, Weapons Training Battalion, Human Resources Office). Do not include requirements for maintaining unit readiness, GMT, sexual harassment, etc. Include all applicable 171-*xx*, 179-*xx* CCN's.

Type of Training Facility/CCN	School	Type of Training	FY 1993 Requirements			FY 2001 Requirements		
			A	B	C	A	B	C
C-2G-2010	NATTC	ALRE Officer	57	112	6384	28	112	3136
C-2G-2011	NATTC	ALREM Maintenance Officer	5	232	1160	5 (1)	232	1160
C-604-2010	NATTC	ALRE C7/11 Catapults	17	192	3264	15	192	2880
C-604-2011	NATTC	ALRE C13 Catapult	65	232	15080	39	232	9048
C-604-2013	NATTC	ALRE Catapul.T ELectrician	23	160	3680	23	160	3680
C-604-2028	NATTC	ALRE Maintenance Technician	43	464	19952	56	464	24128
604-2029	NATTC	ALRE MK 7 Arresting Gear	66	128	8448	116	128	14848
C-670-2010	NATTC	Optical Landing Systems Maintenance	25	400	10000	27	400	11600
C-604-2014	NATTC	ALRE C13 MOD 1 Catapults	64	184	11776	127	184	23368
171-10	Human Resource Office	General	1234	55.66 (2)	68684	1483	55.58 (2)	82421
171-20	Human Resource Offfice	Computer	426	16.22	6909	511	16.23	8291

(1) FY2001 NATTC Student throughput numbers based on current 4 year trends (1993 to 1997, 1997 to 2001), according to the FY 1994 NATTC Detachment Lakehurst Navy Integrated Training Resources Administration System.

(2) Anticipate increased use of in-house training (e.g., Satellite training) versus more expensive off-site training in out year.

A = Students per year

B = Number of hours each student spends in this training FACILITY FOR THE TYPE of training received
C = A x B

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

(2) By Category Code Number (CCN), complete the following table for all training facilities aboard the installation. Include all 171-*xx* and 179-*xx* CCN's.

For example: in the category 171-10, a type of training facility is academic instruction classroom. If you have 10 classrooms with a capacity of 25 students per room, the design capacity would be 250. If these classrooms are available 8 hours a day for 300 days a year, the capacity in student hours per year would be 600,000.

Type Training Facility/CCN	Total Number	Design Capacity (PN)	Capacity (Student HRS/YR)
C-2G-2010 (*)	**1**	**10**	**19,200**
C-2G-2011 (*)	**1**	**6**	**11,520**
C-604-2010 (*)	**1**	**10**	**19,200**
C-604-2011 (*)	**1**	**10**	**19,200**
C-604-2013 (*)	**1**	**10**	**19,200**
C-604-2028 (*)	**1**	**15**	**28,800**
C-604-2029 (*)	**1**	**10**	**19,200**
C-604-2010 (*)	**1**	**10**	**19,200**
C-604-2014 (*)	**1**	**10**	**19,200**
171-10 (**)	**8**	**194**	**607,608**
171-20 (**)	**1**	**16**	**35,408**
TOTAL	**18**	**301**	**817,736**

(3) Describe how the Student HRS/YR value in the preceding table was derived.

(*) (PN) 1 Based on 8 hours/day x number of students x 240 instructional days/year.
(**) 171-10 12 hours/day x 261 days/year x 194
171-20 8 hours/day x 261 days/year x 16

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

6. Ship Berthing Capacity. If your activity has the capacity to berth ships fill out the data sheets provided at TAB A.

7. Operational Airfield Capacity. If your activity owns and operates an operational airfield fill out the data sheets provided at TAB B.

8. Depot Level Maintenance Capacity. Fill out the data sheets provided at TAB C if you or your subordinate activities perform depot level maintenance on a piece of equipment or system.

9. Ordnance Storage Capacity. If your activity has the capability to store or maintain weapons and ordnance fill out the data sheets provided at TAB D.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TAB A

SHIP BERTHING CAPACITY

Note: Question numbers in [ ]'s are for internal BSAT purposes.

THIS TAB DOES NOT APPLY TO THE NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST.

FOR OFFICIAL USE ONLY
PREDECISIONAL

TAB B

OPERATIONAL AIRFIELD CAPACITY

Note: Question numbers in []'s are for internal BSAT purposes.

1. **[1a.]** For the **main airfield and each auxiliary airfield,** answer the following questions.

Airfield Name: **Maxfield Field Lakehurst, N.J.**

For each runway, give its designation, length, width, load capacity, lighting configurations, and arresting gear types. For each runway list any approach obstructions or any restrictions on flight patterns.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Runway	Length (ft)	Width (ft)	Max load	Lighting				Arresting Gear Type(s)
				F	P	C		
6/24	**5000'**	**150'**	**298,000**		**X**			**E-28**
15/33	**5001'**	**150**	**361,000**		**X**			**NONE**
12/30[1] (R&D Runway)	**13,417**	**200**	**390,000**		**X**	*****		**E-28/E-5 MK7 MOD 3 MK7 MOD 2**

F -- Full lighting (runway edge, center, and threshold)
P -- Partial lighting (less than full)
C -- Carrier deck lighting simulated
N -- No lighting

(*) Portable simulated Carrier Deck Lighting is available.

[1]Navy's only R&D runway. Does not meet operational requirements for airfield saftety clearances.

RUNWAY LOAD CAPABILITY PER TYPE OF LANDING GEAR CONFIGURATION

Runway	Single Wheel		Twin Wheel	Twin Tandum
	(150 PSI)	(400 PSI)		
6/24	153K	76K	199K	298K
15/33	185K	73K	240K	361K
12/30	147K	64K	255K	390K

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

2. [1b.] Provide the **composition** (concrete, asphalt) and **load bearing capacity** of your aprons, ramps and taxiway.

Apron/ramp/taxiway Location - ID	SF	Comp.	Load Bearing Capacity	Comments
Parking Apron 1	**264,000**	**ASP/C ON**	**178,000**	
Parking Apron 2	**1,326,200**	**ASP**	**76,000**	
Parking Apron 3	**115,100**	**ASP**	**69,000**	
Taxiway A,B,C	**90,000**	**ASP**	**153,00**	**Previously Taxiways 1,2,3**
Taxiway D	**670,000**	**ASP**	**139,000**	**Previously Taxiway 4**
Taxiway E	**198,000**	**ASP**	**139,000**	**Previously Taxiway 5**
Taxiway F	**390,000**	**ASP**	**118,000**	**Previously Taxiway 6**

3. [1c.] Do you have **high speed taxiways**? Discuss number and impact on airfield operations. **No**

4. [1d.] Are **all runways** with approved instrument approaches served by **hi-speed taxiways**? **No**

5. [1e.] List any restrictions to **runways with approach obstructions** or any **restrictions on flight patterns.** Explain **R5001 overlaps Lakehurst Class D Airspace at the western edge. Aircraft working at facility rwy 12/30 are required to remain close abeam on the west side of rwy 12/30, to avoid flying into restricted area.**

6. [1f.] For the main airfield and each auxiliary and outlying field, discuss any runway design features that are specific to particular types of aircraft (i.e., are the airfield facilities designated primarily fixed wing jet, prop, or helo aircraft?)

RWY 12/30 designed for military/ technical aircraft in a test environment. All operations are contingent on extensive briefings. RWY 12/30 is the only facility in the world dedicated to product development and verification of Aircraft Landing and Recovery Equipment. The Elevated Fixed Platform is designed for product development and evaluation of helicopters only and is the only facility in the world capable of the evaluation of the Recovery Assist Securing and Traversing System.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. [2a.] List the **number of flight operations** (take-off, landing, or approach without landing) that the main airfield and all auxiliary fields can support on an hourly basis in both VMC and IMC. Comment on the factors at each field that limit this capacity (e.g., taxiway/runway limitations, airspace, ATC restrictions, environmental restrictions).

Airfield	# Flight Ops/Hr		Comments on Limiting Factors
	IMC	VMC	
Main	***14**	**50**	***Approach control coordination. VMC includes landings to helipads.**
R&D& RWY[1]	***6**	**30**	***Extensive coordination**
Elevated Fixed Platform	**N/A**	**40**	
Auxiliary _____			

[1]Navy's only R&D runway. Does not meet operational requirements for airfield safety clearances

8. [2b.] Provide the average number of **(historical) flight operations** per month conducted at this station and the total number of days during which these operations were conducted. If data is not normally recorded, include estimates (and how derived). A flight operation is defined as a take-off, landing, or approach without a landing.

FY	Main Airfield		Auxiliary Field Runway		Auxiliary Field HELO EFP		Auxiliary Field _____	
	# Ops	**# Days**	**# Ops**	**# Days**	**# Ops.**	**# Days**	**# Ops.**	**# Days**
1991	**1337**	**355**	**45**	**40**	**12**	**9**		
1992	**1198**	**312**	**23**	**60**	**13**	**10**		
1993	**1404**	**312**	**29**	**45**	**20**	**12**		

9. [2c.] What percent of your flight operations are Fleet Carrier Landing Practices (FCLPs)?
None

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

10. [2d.] Are you designated as an **authorized divert field** for any non-DoD aircraft? Explain. **No**

11. [2d.] Is your airfield designated as a **joint use airfield** (i.e. civilian/military)? Explain. **No**

12. [2e.] What **percentage of total operations are civilian? 0 %**

13. [2f.] Describe the major **civilian air traffic structures** (routes, terminal control areas, approaches, etc.) discuss the present and likely future impact of each on air station operations. **NAES Lakehurst Maxfield has no major civilian air traffic structures in it's immediate vicinity. Within 10 miles of Lakehurst two small civilian airfields exist: R.J. Miller; located 6.5 NM southeast of Maxfield and Lakewood Airport is located 8NM east of Maxfield. Both of these airports are relatively small in size, are designated Unicom airfields and don't pose any immediate threat of expansion. IFR operations to and from/to these fields at times requires coordination. Maxfield utilizes several civilian navaids to support IFR operation at Maxfield; the Robbinsville VORTAC located 13NM north, Coyle VORTAC located 13NM south and the Coltsneck VOR/DME located 16.5 ENE.**

14. [2g.] Are there any **air traffic control constraints**/procedures that currently, or may in the future, limit air station operations? If yes, fully explain impact. **None known**

15. [4.] List all **NAVAIDS** with published approaches that support the main airfield and/or your auxiliary airfields. Note any additions/upgrades to be added between now and FY1997.

NAVAID	DESCRIPTION/LOCATION
TACAN CH 55	**MAXFIELD - NAES LAKEHURST**
NDB LF/UHF 396Khz / 274.8 Mhz	**MAXFIELD - NAES LAKEHURST**
VORTAC	**12NM NORTH - ROBBINSVILLE NJ**
VOR/DME	**17.5NM EAST - COLTSNECK NJ**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

16. [5a.] List all **active duty Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), that will be permanently stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
NONE							

17. [5b.] Summarize average **visiting squadron/det loading** on air station operations (i.e. airwing/wing weapons deployment).

Squadron/Det Size (#A/C)	Apron Space Used	Hangar Space Assigned	Maintenance Support	Avg length of stay
NONE				

18. [5c.] If a major percent of flight operations at your air station is from other than permanently stationed squadron/detachments, provide explanation. **Nearly all ops are conducted by transient aircraft. Lakehurst has one Army detachment the US Army Airborne Engineering Evaluation Support Activity (AEESA) which provides for approximately 25 percent of overall traffic.**

19. [6a.] List all **reserve Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), which will be stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
NONE							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

20. **[7.]** List all **Station aircraft** by number, type, model, and series (T/M/S), which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
NONE							

21. **[8.]** List all **DoD and non-DoD aircraft** not previously listed, by custodian, including number, type, model, and series (T/M/S) of aircraft, which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Service/ Agency/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 94	FY 95	FY 97	FY 1999	FY 2001
Army/AEESA	**21**	**BN-2T/88-0196 AH-64/86-8945 AH-64/90-0312 MAH-1S/70-16018 YEH-60B/76-23013 RC-12D/78-23141 RC-12D/80-23371 SD3/85-25342 SD3/85-25343 SD3/85-25245 JUH-IH/6617020 JUH-1H/6915000 JUH-1H/7120000 JUH-1H/7321684 JUH-1H/7321685 JUH-1H/7321793 JUH-1H/7322900 UH-60A/77-22717 UH-60A/8123611 UH-60A/8323910 C-23/840464**	**21**	**21**	**21**	**21**	**21**
Flying Club	**2**	**T34, C172**	**2**	**2**	**2**	**2**	**2**
USCG	**6**	**HH65A**	**6**	**6**	**6**	**6**	**6**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

22. [9a.] List other **operational command or support units** (ie. air wing staffs, MWSG, MWSS, MACG, MASS, etc.) stationed at this installation. For each Unit, give the unit identification number/UIC, mission, and facilities required (currently being used) to support the unit (i.e. equipment parking - 2500 SF; maintenance shop-200 SF; etc.).

Support Unit Identification/UIC	Mission	Facilities Required	Equipment Laydown Requirement (covered/ uncovered in SF)
AEESA	**Airborne engineering evaluation support**	**Helipads/hangar space**	

23. [9b.] Due to BRAC or other realignments, what increases/decreases in operational command or support units will occur at your installation. Provide expected gains/losses by year through 2001.

USCG, expected to arrive in 1997, will bring a squadron of eight to 10 aircraft. Additional air traffic from McGuire AFB is expected to use the airport for training due to expected saturation at McGuire when Barksdale AFB aircraft (KC-10) arrive here beginning FY95. The aircraft would not be landing, they would be conducting practice instrument approaches and flying no lower than 500 feet AGL.

24. [10a.] List all **other USN/USNR, USMC/USMCR, and other DoD or non-DoD active and SELRES units** not listed previously, that are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Unit	Active or Reserve	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001
USCG	**ACT**	**6**	**6**	**6**	**6**	**6**

25. [12b.] For each **Special Use Airspace (SUA)** or airspace-for-special use routinely used by squadrons/units assigned to your installation (regardless of location[1]), indicate how many hours per year are **required for** each user to maintain required **readiness**. Special Use Airspace includes alert areas, military operating areas (MOA), restricted areas, and warning areas which are used for air-to-air, air-to-ground, electronic (EW, ECM), low level training routes (MTRs), and other training.

SUA	Location /Distance	Types/Uses	Scheduling Authority (UIC)	Squadron/Unit	Training Requirement (types of training)	Yearly Usage Rate (Hrs)
W-107	**13 EAST**	**Electronic Research**	**AEESA/ NY CENTER**	**AEESA**	**Research**	**50**

Remarks: **None**

[1] include RON/domestic deployment training

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

26. [12c.] For each **Special Use Airspace (SUA)** or airspace-for-special-use complete the following table:

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Fiscal Year	Scheduled	Utilized[1]	Operating Limitations [2]
					# Hours	# Hours	
N/A	N/A	N/A	N/A	1991	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1992	N/A	N/A	N/A

[1] For the "Utilized" values, provide reasons for hours scheduled, but not utilized (e.g. 40% canceled due to weather; 10% canceled for unscheduled range maintenance, etc.).
[2] Provide any comments on operating limitations.

27. [12d.] Assuming that the flight training facility is not constrained by operational funding (personnel support, increased overhead costs, etc.), with the present equipment, physical plant, etc. , what additional use of airspace assets could be realized? Provide details and assumptions for all calculations. **W-107 located off the southern half of the N.J. coast extends approx 100 miles out to sea. R-5001 Approx 16 sq miles in size is located 4 miles west of Lakehurst can be used for maneuvers with helos and ground units. R-5002 Approx 100 sq miles in size, is located 17 Southeast of Lakehurst and can be used as an artillery range and cargo drop zone.**

28. [12h.] In the event that it became necessary to increase base loading at your installation, does the airspace overlying and adjacent to your installation have the capacity to assume an additional workload? Estimate the percentage of the possible increase. Provide the basis/calculations for these estimates. **The airspace located over Lakehurst would be able to accept an increase of approx 50%. The estimate is based on current airspace configurations and radar coverage provided by McGuire AFB Approach Control.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

29. [17a.] Using the types (and mix) of aircraft currently stationed at your installation, project the additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be based and parked on your **current parking aprons.**

Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accommodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total (Current + Additional)	
		NAVFAC	Surge	NAVFAC	Surge
BN-2T	**1**	**19**	**5**	**20**	**5**
AH-64	**2**	**38**	**10**	**40**	**8**
MAH-1S	**1**	**19**	**5**	**20**	**5**
YEH-60B	**1**	**19**	**5**	**20**	**5**
RC-12D	**2**	**38**	**10**	**40**	**8**
SD3	**3**	**58**	**14**	**61**	**15**
JUH-1H	**7**	**160**	**40**	**167**	**42**
UH-60A	**3**	**73**	**18**	**76**	**19**
C-23	**1**	**19**	**5**	**20**	**5**
T-34	**1**	**19**	**5**	**20**	**5**
C-172	**1**	**19**	**5**	**20**	**5**

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, parking angle, folding of aircraft wings and any obstructions that may limit the placement of aircraft on the parking apron spaces. Indicate if taxiway aprons are used in the projection. **Due to limited information available on above listed aircraft a average SF area was used for each aircraft and 25% extra was calculated to obtain the surge figures.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

30. [18a.] List the **hangars** at the air station. Identify by (P-80) type, year built, dimensions.

Hangar ID/#	Type I, II or (O)ther	Year Built	Hangar Deck Dimensions	Limiting Height	Current Usage	In SF			
						Adequate	Substandard	Inadequate	Total
1	O (a)	1921	808 x 262	200	Pri: 441-10- 171-35 171-77 315-10 311-20	77,583 75,199 6,276 26,707 3,253	22,678		
5	O (b)	1943	1000 x 231	174	211-05	232,880			
6	O (c)	1943	1000 x 231	174	211-05	231,000			
Bldg 307 Maxfield Hangar	O (d)	1957	241 x 130	48	211-05	31,460			

In accordance with NAVFACINST 11010.44E, an nadequate facility cannot be made adequate for-its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP. **None**

(a) Primary usage is general warehouse storage space, category 441-10. Secondary usage is training, category 171. Original usage was airship operations.

b) Used by Army as a Type I hangar. Original usage was airship operations.

(c) Currently vacant. Original usage airship operations.

(d) Type I Equivalent.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

31. [18b.] For each **hangar** provide **space allocation** information listed in table below. Indicate if OPS/ADMIN space is in a non-contiguous building, Provide subtotal for each hangar.

Hangar #/ID/Type	SQD/Mod# Assignment[1]	Ops + Admin Spaces SF/ Module	Maint Shops SF/ Module (O Level)	Hangar Deck SF/Module	A/C Line parking spaces [2,3]		
					#/ Module	SF	Elec. Pwr.
Maxfield Hangar	**None**	**17,500**	**6,285***	**31,460**	**2**	**264,000**	**None**
Hangar 5	**Army/0**	**37,803**	**34,637**	**232,880**	**6**	**663,100**	**None**
Hangar 6	**Vacant/0**	**36,200**	**36,200**	**231,000**	**6**	**663,100**	**None**
TOTAL							

[1] Provide which SQD/Det was assigned to the specific module at receipt of this Data Call. (i.e., VFA-15, Hgr 1, Mod C)

[2] Dedicated aircraft parking spaces per Module and total square feet (SF) of A/C line parking spaces

[3] Are there A/C line parking spaces supported by permanently installed electric power? (Y/N)

32. [18f.] List all **squadrons/detachments** normally homeported at this air station that were deployed and **not assigned** hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Deployed Location
N/A		

33. [18g.] List all squadrons/detachments normally homeported at this air station that were deployed and were assigned hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Hanger Module Assignment
N/A		

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

34. [18h.] Using the types (and mix) of **aircraft** currently stationed at your installation, project the maximum additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be housed and maintained in **your current hangars**. Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accommodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total (Current + Additional)	
		NAVFAC	Surge	NAVFAC	Surge
BN-2T	**1**	**3**	**5**	**4**	**7**
AH-64	**2**	**6**	**8**	**8**	**11**
MAH-1S	**1**	**3**	**5**	**4**	**7**
YEH-60B	**1**	**3**	**5**	**4**	**7**
RC-12D	**2**	**6**	**8**	**8**	**11**
SD3	**3**	**9**	**12**	**12**	**15**
JUH-1H	**7**	**21**	**30**	**28**	**35**
UH-60A	**3**	**9**	**12**	**12**	**15**
C-23	**1**	**3**	**5**	**4**	**7**
T-34	**1**	**3**	**5**	**4**	**7**
C-172	**1**	**3**	**5**	**4**	**7**

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, folding of aircraft wings and any obstructions that may limit the placement of aircraft in the hangars. **Due to limited information available on above listed aircraft an average SF area was used for each aircraft and 25% extra was calculated to obtain the surge figures.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

35. [19.] Do you have any of the following **special use facilities** at the Air Station?

CCN	Type of Facility	In SF				# of Units	Year Built
		Adequate	Substandard	Inadequate	Total		
211-01	Aircraft Acoustical Enclosure						
211-02	Nose Hangar						
211-03	Corrosion Control Hangar						
211-75	Parachute/Survival Equipment Shop						
211-81	Engine Test Cell						
211-88	Power Check Pad with Sound Suppression						
211-89	Power Check Pad without Sound Suppression	4,224				1	1960
211-96	Maintenance, Aircraft Spares Storage	240 128 960				1 1 1	1945 1971 1977
116-10	Airfield Washrack Pavement						
116-15	Aircraft Rinse Facility						
214-30	Refueling Vehicle Shop		2,000			1	1948
218-60	Aircraft Ground Support Equipment	6,285				1	1993
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

36. [21a.] For the following **aircraft support facility** category codes, provide the amount of adequate substandard, and inadequate facilities.

CCN	Facility Type	Unit of Measure	Adequate	Substandard	Inadequate	Total	Number of Units
111-20	**Landing Pads**	**SF**		**17,685**		**17,685**	**SF**
121-10	**Direct Fueling**	**OL/GM**					
124-30	**Fuel Storage**	**GA**	**260,000**			**260,000**	**GA**
421-xx	**Ammunition Storage**	**CF/TONS**	**84,126**			**84,126**	**CF**
425-xx	**Open Ammunition Storage**	**SF**					
113-20	**Parking Aprons**	**SF**		**1,590,200**	**115,100 (1)**	**1,705,300**	**SF**
113-40	**Access Aprons**	**SF**	**16,000**			**16,000**	**SF**
116-56	**Combat Aircraft Ordnance Loading Area**	**SF**					
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

1 At present, there are no plans to upgrade Apron 3 from inadequate to substandard for this function. This area is being considered for decommissioning and being made available for other uses.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Maintenance and Industrial Activities

Activities that actually perform Depot Level Maintenance shoudl complete **PART I** of this TAB. Warfare Center Headquarters (Owners & Operators) whose subordinate activities actually perform Depot Level Maintenance should complete **PART II** of this TAB. Depot and/or industrial workload capacity is to be reported as a function of the following categories for the period requested.

JCSG-DM: Maintenance and Industrial Activities

Commodity Groups List

1. Aircraft Airframes:
   - Rotary
   - VSTOL
   - Fixed Wing
     - Transport / Tanker / Bomber / Command and Control
     - Light Combat
     - Admin / Training
   - Other

2. Aircraft Components
   - Dynamic Components
   - Aircraft Structures
   - Hydraulic/Pneumatic
   - Instruments
   - Landing Gear
   - Aviation Ordnance
   - Avionics/Electronics
   - APUs
   - Other

3. Engines (Gas Turbine)
   - Aircraft
   - Ship
   - Tank
   - Blades / Vanes (Type 2)

4. Missiles and Missile Components
   - Strategic
   - Tactical / MLRS

5. Amphibians
   - Vehicles
   - Components (less GTE)

6. Ground Combat Vehicles
   - Self-propelled
   - Tanks
   - Towed Combat Vehicles
   - Components (less GTE)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

7. Ground and Shipboard Communications and Electronic Equipment
   - Radar
   - Radio Communications
   - Wire Communications
   - Electronic Warfare
   - Navigational Aids
   - Electro-Optics / Night Vision
   - Satellite Control / Space Sensors

8. Automotive / Construction Equipment

9. Tactical Vehicles
   - Tactical Automotive Vehicles
   - Components

10. Ground General Purpose Items
    - Ground Support Equipment (except aircraft)
    - Small Arms / Personal Weapons
    - Munitions / Ordnance
    - Ground Generators
    - Other

11. Sea Systems
    - Ships
    - Weapons Systems

12. Software
    - Tactical Systems
    - Support Equipment

13. Special Interest Items
    - Bearings Refurbishment
    - Calibration (Type I)
    - TMDE

14. Other

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Refer to the following notes when filling out the tables in this TAB.

Notes:

1. "Production" equates to the number of items processed per Fiscal Year (FY), unless otherwise specified.

2. Base your responses for FY 1994 and previous years on executed workload, and for FY 1995 and subsequent years on workload as programmed. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the Activity's configuration as of completion of implementation of the BRAC-88/91/93 actions.

3. Use single shift operations (1-8-5) as the basis for your calculations. Report in specified units of throughput and Direct Labor Man Hours (DLMHs).

4. If any responses are classified, so annotate the applicable question and include those responses in a separate classified annex.

5. Capacity Index and Utilization Index will be calculated in accordance with the Defense Depot Maintenance Council approved update to Department of Defense Instruction (DoDInst) 4151.15H, "Depot Maintenance Capacity/Utilization Index Measurement."

6. The Major Owner/Operator questions will be answered by the Major Claimant/Systems Commander.

7. Utilize the tables provided to answer each question. Answer the questions for all of the commodity groups that are applicable to your activity. In the Aircraft Airframes and Engines (Gas Turbine) commodity groups break out the information by aircraft type, model, series or by engine type as applicable when filling out the tables.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

PART I: MAINTENANCE & INDUSTRIAL ACTIVITIES

1. Historic and Predicted Workload

1.1 Given the current configuration and operration of your activitry, provide the depot/industrial level maintenance by commodity group (from the List above) that was executed in and is programmed for the Fiscal Years (FY) requested in units throughput (tables 1.1.a and 1.1.b) and in Direct Labor Man Hours(DLMHs) (Tables 1.1.c and 1.1.d). Add additional rows as required to report all commodity types serveced at this activity.

Table 1.1a: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
Aircraft Platform Interface (API)	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CV/CVN CrossDeck Pendants	2576	1675	820	1238	2305	1922	1603	781
CV/CVN Purchase Cable Cycle Tests	396	46	91	33	175	244	148	234
CV/CVN Barricade Mfr	102	89	55	26	0	0	2	10
CV/CVN JBD Manufacture	6	6	3	10	7	0	4	10
CV/CVN LLLV Overhaul	1	0	3	1	5	8	5	6
Support Equipment								
Prototype, Limited Production and Direct Fleet Support [2]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total API:	3,081	1,816	972	1,308	2,492	2,174	1,762	1,041

The Manufacturing Technology Department of the NAWCADLKE performs high quality, rapid-turnaround manufacturing and overhaul of Aircraft Platform Interface systems and components. Approximately 20 percent of our workload consists of manufacturing and overhaul of flight critical items. Because of the catastrophic results of a single point failure, and the manufacturing-process-dependent requirement for quality, Lakehurst is the sole source supplier for Cross Deck Pendant and Barricade manufacture, purchase cable testing, and launch valve overhaul. Yearly throughputs for these products are listed in the table above. Though not considered flight critical, Lakehurst is currently the only supplier of Jet Blast Deflector's (JBD). Previous attempts to contract for this item generated little interest from industry and one vendor was terminated for default. JBD throughput is also listed individually. Total API reflects quantities for repetitive manufacture only.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NOTES: **(1) Prototype, limited production and direct fleet support, as referenced in the tables, consist of modification, repair, overhaul, and limited production of Aircraft Launch and Recovery Equipment (ALRE) in support of new product development, fleet emergencies, and engineering investigations. Lakehurst is the only proven reliable source for several items essential to sustaining carrier aircraft operations completing manufacturing in several cases where a contract defaults. Examples of products manufactured under this category include: catapult power cylinders, arresting engine systems and components (shipboard and shore based), catapult super seals, AM-2 matting locking bar, E2/C2 barricades and shackles, CSV assemblies, LSO HUD components, E-28 hub assemblies and VLA lighting control panels.**

(2) As with ALRE, Lakehurst also has the capability to manufacture and overhaul mechanical hydraulic support equipment systems and components. Examples of past efforts in this area include: overhaul/modification of aircraft spotting dollies for the Air Force, SATs weapons loaders, P-3 SHOLS adapters, F/A-18 inlet screens and helicopter ground handling wheels.

Table 1.1b: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
Aircraft Platform Interface (API)	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CV/CVN CrossDeck Pendants	568	563	563	563	563	563	563	563
CV/CVN Purchase Cable Cycle Tests	200	220	200	220	200	220	200	220
CV/CVN Barricade Mfr	4	10	0	8	10	7	0	0
CV/CVN JBD Manufacture	14	14	4	4	4	4	4	2
CV/CVN LLLV Overhaul	5	5	5	6	6	7	6	5
Support Equipment								
Prototype, Limited Production and Direct Fleet Support [2]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total API:	791	812	772	801	783	801	773	790

NAWCADLKE performs high quality, rapid-turnaround manufacturing and overhaul of Aircraft Platform Interface systems and components. Approximately 20 percent of our workload consists of manufacturing and overhaul of flight critical items. Because of the catastrophic results of a single point failure, and the manufacturing-process-dependent requirement for quality, Lakehurst is the sole source supplier for Cross Deck Pendant and Barricade manufacture, purchase cable testing, and launch valve overhaul. Yearly throughputs for these products are listed in the table above. Though not considered flight critical, Lakehurst is currently the only supplier of Jet Blast Deflector's (JBD). Previous attempts to contract for this item generated little interest from industry and one vendor was terminated for default. JBD throughput is also listed individually. Total API reflects quantities for repetitive manufacture only.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NOTES: **(1) Prototype, limited production and direct fleet support, as referenced in the tables, consist of modification, repair, overhaul, and limited production of Aircraft Launch and Recovery Equipment (ALRE) in support of new product development, fleet emergencies, and engineering investigations. Lakehurst is the only proven reliable source for several items essential to sustaining carrier aircraft operations completing manufacturing in several cases where a contract defaults. Examples of products manufactured under this category include: catapult power cylinders, arresting engine systems and components (shipboard and shore based), catapult super seals, AM-2 matting locking bar, E2/C2 barricades and shackles, CSV assemblies, LSO HUD components, E-28 hub assemblies and VLA lighting control panels.**

(2) As with ALRE, Lakehurst also has the capability to manufacture and overhaul mechanical hydraulic support equipment systems and components. Examples of past efforts in this area include: overhaul/modification of aircraft spotting dollies for the Air Force, SATs weapons loaders, P-3 SHOLS adapters, F/A-18 inlet screens and helicopter ground handling wheels.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.1c: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	DLMHs							
Aircraft Platform Interface (API)	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	303883	253044	251737	240652	238925	179273	135904	74667
CV/CVN CrossDeckPendants	42878	24870	11408	16880	29660	23000	17349	6833
CV/CVN Purchase Cable Cycle Tests	14402	1525	2979	1099	5709	7474	4270	6756
CV/CVN Barricade Mfr	12240	10680	6600	3120	0	0	900	4500
CV/CVN JBD Manufacture	9601	8846	3972	16120	10854	0	5635	12936
CV/CVN LLLV Overhaul	4879	4519	8525	4314	21223	32930	19175	19141
Support Equipment								
Prototype, Limited Production and Direct Fleet Support [2]	66706	55546	59049	56449	52447	47655	29832	71738
Total API:	454,589	359,030	344,270	338,634	358,818	290,332	213,065	196,571

NAWCADLKE performs high quality, rapid-turnaround manufacturing and overhaul of Aircraft Platform Interface systems and components. Approximately 20 percent of our workload consists of manufacturing and overhaul of flight critical items. Because of the catastrophic results of a single point failure, and the manufacturing-process-dependent requirement for quality, Lakehurst is the sole source supplier for Cross Deck Pendant and Barricade manufacture, purchase cable testing, and launch valve overhaul. Yearly throughputs for these products are listed in the table above. Though not considered flight critical, Lakehurst is currently the only supplier of Jet Blast Deflector's (JBD). Previous attempts to contract for this item generated little interest from industry and one vendor was terminated for default. JBD throughput is also listed individually.

NOTES: **(1) Prototype, limited production and direct fleet support, as referenced in the tables, consist of modification, repair, overhaul, and limited production of Aircraft Launch and Recovery Equipment (ALRE) in support of new product development, fleet emergencies, and engineering investigations. Lakehurst has also become "the supplier of last resort", completing manufacturing in cases where a contract default has jeopardized the delivery of hardware needed to meet a critical schedule. Examples of products manufactured under this category include: catapult power cylinders, arresting engine systems and components (shipboard and shore based), catapult super seals, AM-2 matting locking bar, E2/C2 barricades and shackles, CSV assemblies, LSO HUD components, E-28 hub assemblies and VLA lighting control panels.**

(2) As with ALRE, Lakehurst also has the capability to manufacture and overhaul mechanical hydraulic support equipment systems and components. Examples of past efforts in this area include: overhaul/modification of aircraft spotting dollies for the Air Force, SATs weapons loaders, P-3 SHOLS adapters, F/A-18 inlet screens and helicopter ground handling wheels.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.1d: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	DLMHs							
Aircraft Platform Interface (API)	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	91282	91684	103478	92065	79210	71168	66036	62047
CV/CVN Cross Deck Pendants	15746	14577	14192	14192	13578	13580	13574	13579
CV/CVN Purchase Cable Cycle Tests	5794	5915	5379	5379	5378	5921	5385	5917
CV/CVN Barricade Mfr	1800	4500	0	3600	4500	3150	0	0
CV/CVN JBD Manufacture	23936	22324	6573	6573	6692	6720	6731	3500
CV/CVN LLLV Overhaul	20333	18944	18954	22740	22740	26523	22733	18939
Support Equipment								
Prototype, Limited Production and Direct Fleet Support [2]	102934	75015	99420	103817	104999	111315	122638	131849
Total API:	261,825	232,959	247,996	248,366	237,097	238,377	237,097	235,831

NAWCADLKE performs high quality, rapid-turnaround manufacturing and overhaul of Aircraft Platform Interface systems and components. Approximately 20 percent of our workload consists of manufacturing and overhaul of flight critical items. Because of the catastrophic results of a single point failure, and the manufacturing-process-dependent requirement for quality, Lakehurst is the sole source supplier for Cross Deck Pendant and Barricade manufacture, purchase cable testing, and launch valve overhaul. Yearly throughputs for these products are listed in the table above. Though not considered flight critical, Lakehurst is currently the only supplier of Jet Blast Deflector's (JBD). Previous attempts to contract for this item generated little interest from industry and one vendor was terminated for default. JBD throughput is also listed individually.

NOTES: **(1) Prototype, limited production and direct fleet support, as referenced in the tables, consist of modification, repair, overhaul, and limited production of Aircraft Launch and Recovery Equipment (ALRE) in support of new product development, fleet emergencies, and engineering investigations. Lakehurst has also become "the supplier of last resort", completing manufacturing in cases where a contract default has jeopardized the delivery of hardware needed to meet a critical schedule. Examples of products manufactured under this category include: catapult power cylinders, arresting engine systems and components (shipboard and shore based), catapult super seals, AM-2 matting locking bar, E2/C2 barricades and shackles, CSV assemblies, LSO HUD components, E-28 hub assemblies and VLA lighting control panels.**

(2) As with ALRE, Lakehurst also has the capability to manufacture and overhaul mechanical hydraulic support equipment systems and components. Examples of past efforts in this area include: overhaul/modification of aircraft spotting dollies for the Air Force, SATs weapons loaders, P-3 SHOLS adapters, F/A-18 inlet screens and helicopter ground handling wheels.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1.2 For each commodity type reported in Tables 1.1.a through 1.1.d, assume (a) the current projected total depot/industrial workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which depot / industrial maintenance operations could be expanded at this activity, based on the current and future planned workload mixes, for the requested period? Please provide your response in both the absolute maximum number of units and DLMHs that could be processed at this activity by applicable commodity group. Add additional rows as necessary to accommodate all commodity types serviced at this activity.

Table 1.2a: **Maximum Potential Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
Aircraft Platform Interface (API)	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CV/CVN Cross Deck Pendants [2]	568	563	563	563	563	563	563	563
CV/CVN Purchase Cable Cycle Tests [2]	200	220	220	220	220	220	220	220
CV/CVN Barricade Mfr [2]	4	10	0	8	10	7	0	0
CV/CVN JBD Manufacture [2]	14	14	4	4	4	4	4	2
CV/CVN LLLV Overhaul [2]	5	5	5	6	6	7	6	5
Support Equipment								
Prototype, Limited Production and Direct Fleet Support [3]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total API:	791	812	772	801	783	801	773	790

Our Maximum capacity does not assume maximum hours associated with CDP, Purchase Cable, JBD, Barricade, and LLLV work. Should these requirements occur in any year, then the non specific ALRE and Support Equipment prototype, limited production, repair and overhaul work would be decreased accordingly.

Total API reflects quantities for repetitive manufacture only.

The following assumptions apply to all maximum potential workload projections:

1. **No additional space beyond the existing Lakehurst Industrial Complex will be utilized.**
2. **No MILCON funding is required.**
3. **No outlay of funds for purchase of equipment.**
4. **Outyear workload projections are based upon expanding from one shift to either two or three shifts as dictated by the above commodity production requirement.**
5. **There are no constraints applicable to the production of any commodity group.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NOTES:

(1) See 1.3 ALRE Prototype, Limited Production and Direct Fleet Support

(2) Throughput in units represents the normal presumed requirement in a fiscal year period. Fleet requirements for the manufacture of cross deck pendants, barricades, and associated cycle testing are based on presumed normal consumption rates for each commodity. LLLV's and JBD's are not considered to be consumable.

(3) See 1.3 Support Equipment Prototype, Limited Production and Direct Fleet Support

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 1.2b: **Maximum Potential Depot/Industrial Workload**

Commodity Type	DLMHs							
Aircraft Platform Interface (API)	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
ALRE								
Prototype, Limited Production and Direct Fleet Support [1]	91282	91684	119797	158630	175056	184899	168550	156179
CV/CVN Cross Deck Pendants [2]	15746	14577	14192	14192	13578	13580	13574	13579
CV/CVN Purchase Cable Cycle Tests [2]	5794	5915	5379	5379	5378	5921	5385	5917
CV/CVN Barricade Mfr [2]	1800	4500	0	3600	4500	3150	0	0
CV/CVN JBD Mfr [2]	23936	22324	6573	6573	6692	6720	6731	3500
CV/CVN LLLV Overhaul [2]	20333	18944	18954	22740	22740	26523	22733	18939
Support Equipment								
Production and Direct Fleet Support [3]	102934	75015	115100	178880	232050	289201	313021	331880
Total API:	261,825	232,959	279,995	389,994	459,994	529,994	529,994	529,994

Our Maximum capacity does not assume maximum hours associated with CDP, Purchase Cable, JBD, Barricade, and LLLV work. Should these requirements occur in any year, then the non specific ALRE and Support Equipment prototype, limited production, repair and overhaul work would be decreased accordingly.

Total API reflects only repetitive manufacture.

The following assumptions apply to all maximum potential workload projections:

1. **No additional space beyond the existing Lakehurst Industrial Complex will be utilized.**
2. **No MILCON funding is required.**
3. **No outlay of funds for purchase of equipment.**
4. **Outyear workload projections are based upon expanding from one shift to either two or three shifts as dictated by the above commodity production requirement.**
5. **There are no constraints applicable to the production of any commodity group.**
6. **1 Manyear = 1750 DLMH + 10% (overtime) = 1925 DLMH/yr.**
7. **Due to an increase in direct labor workload, outyear productive ratio is assumed as follows:**

   FY94 59% FY95 60%
   FY96 70% FY97 80%
   FY98 80% FY99 80%
   FY00 80% FY01 80%
8. **Workforce could be increased by an additional 50 people/year for FY1997, 1998 and 1999.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NOTES: **(1) See 1.3 ALRE Prototype, Limited Production and Direct Fleet Support**
(2) Throughput in units represents the normal presumed requirement in a fiscal year period. Fleet requirements for the manufacture of cross deck pendants, barricades, and associated cycle testing are based on presumed normal consumption rates for each commodity. LLLV's and JBD's are not considered to be consumable.
(3) See 1.3 Support Equipment Prototype, Limited Production and Direct Fleet Support

1.3 Provide details of your calculations including assumptions on additional space utilized, major equipment required, production rates, and constraints that limit increased workload by commodity group at this activity.

ALRE: PROTOTYPING, LIMITED PRODUCTION, LAST SOURCE OF REPAIR AND MANUFACTURE

NAWCADLKE has the capacity and capability to absorb additional work years in manufacture, repair and overhaul of all ALRE components. These include all catapult, arresting gear and visual landing components. Much of this work is currently performed at NADEPs. Examples of overhaul and repair work which could be accomplished at Lakehurst are LSO HUD, Fresnel Lens Optical Landing Systems, Catapult Capacity Selectors, Arresting Gear Constant Runout Valves etc. Essentially all mechanical and electrical system overhaul and repair could be accomplished at Lakehurst.

With the ability to hire, Lakehurst could increase its staff size by approximately 350 people to a total of approximately 2350, roughly the organization size in the mid 1980s. This workload and personnel expansion would only require minor facility modifications for additional work space and storage.

CROSS DECK PENDANT MANUFACTURE
Current Capacity:

Lakehurst currently produces between 550-1200 cross deck pendants (CDP's) per year. This is based upon utilization of two 3,000 ton hydraulic swaging presses, a machining cell, cable layout trays and separate facilities for heat treating and tensile testing. The current operation is conducted with 12 personnel on one shift.

Maximum Capacity:

Lakehurst can increase its current throughput by expanding to a three shift operation. This would result in a theoretical maximum capacity of more than 5,000 CDP's per year, far greater than maximum foreseen demands.

CYCLE TESTING OF PURCHASED WIRE ROPE
Current Capacity: Present utilization of two cycle testing machines results in 220 cycle test/year, at an average rate of 26.9 hrs. to perform one cycle test (multiple tests are conducted simultaneously).

Maximum Capacity: Expanding to a 3-shift operation would allow for a cable testing rate of 864 tests per year, far greater than maximum foreseen demands.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

LOW LOSS LAUNCH VALVE OVERHAUL

Current Capacity:

Lakehurst currently produces 6 LLLV's/year, utilizing 5 personnel/day, on various machines during 1 shift. In support of past mobilization crises, Lakehurst overhauled 8 LLLV's.

Maximum Capacity:

By expanding to 3 shifts, and by purchasing additional equipment, capacity could be increased to 18 LLLV's/year. This far exceeds maximum demands of potential wartime conditions.

JET BLAST DEFLECTOR MANUFACTURE

Current Capacity:

Lakehurst's current capacity can produce 24 JBD's/year dedicating approximately 10 people/day, using one shift in the associated operations.

Maximum Capacity:

Lakehurst is capable of producing a maximum of 70 JBD's/year within the existing workspace, by utilizing existing equipment, and by going to a three shift operation. This is far greater than maximum foreseen demands. A more likely scenario would be an increase in demand for replacement modules. By design, JBD assemblies as a whole, seldom need replacement once installed. The only consumable items are miscellaneous piping and water cooled modules which Lakehurst has manufactured for the supply system at the rate of 700 per year. Our maximum throughput for modules, assuming use of present facilities and equipment on a multiple shift basis, would be 2,100 which would be far greater than maximum foreseen demand.

BARRICADE MANUFACTURE

Current Capacity:

Lakehurst currently employs 3 personnel who can produce an average of 4 barricades/year per person. Total current capacity is 12 barricades/year on a one shift operation.

Maximum Capacity:

Expanding to a three shifts would produce 36 barricades/year. This is far greater than maximum foreseen demands.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

SUPPORT EQUIPMENT PROTOTYPING, LIMITED PRODUCTION, LAST SOURCE OF REPAIR AND MANUFACTURE

NAWCADLKE has the capacity and capability to absorb additional work years in manufacture, repair, overhaul and upgrade (CILOP) of selected Support Equipment assets such as wheeled vehicles (tow tractors, spotting dollies, fire trucks etc...), mobile electrical power plants, aircraft generator test systems, armament handling systems and cryogenic systems.

In a similar approach to expansion of ALRE workload, Lakehurst could increase staff size to accomplish the additional work with minor facility modifications for workspace and storage requirements.

1.4 Given an environment unconstrained by funds or manning, what Industrial Plant Equipment (IPE) would you change (add, delete, or modify) to increase your activity's capability to perform workload in each of the applicable commodity groups? Describe quantitatively how the changes above would increase your activity's depot/industrial level maintenance capabilities. What would the associated costs be? What would be the payback period and return on investment?

No major equipment purchases required in the production of all commodity types. Calculations of payback period and return on investment are not applicable.

1.5 Are there any environmental, legal, or otherwise limiting factors that inhibit further the development of depot/industrial level workload and this activity (AICUZ encroachment, pollutant discharge, etc.)?

No, and in fact we have considered additional growth in all of our environmental endeavors. We are now in an excellent position to accommodate additional activities/missions.

NAWCADLKE is on the National Priority List of sites to be remediated in accordance with CERCLA. 44 individual contaminated areas are being addressed and to date, the station has completed 37 Record of Decisions (ROD). During the preparation of the Risk Assessment associated with these sites, all calculations, public hearings, and remedial efforts have been based on the endangerment index categorizing the station as "military/light industrial land use." Any change in this classification would result in the military having to readdress the RODs since these were based on the current land use.

AIR.... NAWCADLKE has never received an air permit violation and all of our air permits are up to date. We are on schedule with the state's Employee Trip Reduction program and do not foresee any additional impacts if the number of employees were to increase.

WATER ... A new water MILCON is presently in the design phase by NAVFAC Northern Division and has an estimated Beneficial Occupancy Date of January 1996. This project will substantially increase the station capacity for pumping and storing potable water.

WASTE WATER....The station has 3 active New Jersey Pollutant Discharge Elimination System (NJPDES) permits that allow water discharges. The station is actively pursuing additional treatment for these discharge points, which, if anything, would increase the allowable workload level in those areas. The remaining discharge is to the Ocean County Utilities Authority. There is no limit to the quantity of this discharge.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

SOLID WASTE.... The station has an active recycling program. An increase in the station's mission would not have an effect on our program. HAZ WASTE/HAZMIN....The station is in the process of combining all aspects of hazardous waste and hazardous material into a single program. It is expected that this new consolidated hazardous material/waste reutilization and inventory management program will be totally operational by the end of the year. An increase in industrial activities will not impact the program.
AICUZ.....Development in the surrounding communities is tightly controlled since the master plans of all neighboring municipalities include the station's AICUZ requirements. In addition, the station is totally located within the Pinelands, an area protected from growth by the Pinelands Commission, the State of New Jersey and the Department of the Interior. Our location does not limit additional military activities, but it does restrict development of adjacent areas. For example, the north and south borders of the station are designated wildlife preserves. An indication of the station's favorable location is exemplified by one of the station's existing tenants, located here because of the lack of noise restrictions and large buffer zone.

2. Workload Summary

2.1 Enter the information from the Predicted and Potential Workload sections of the previous question into the table below and calculate the variance between projected and potential workloads. Again, clearly identify each commodity and include all commodities serviced at this activity.

Table 2.1.a: Predicted Workload Variance For FY 1995

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	91684	91684	0.00
CV/CVN Cross Deck Pendants	563	1126	563.00	14577	14577	0.00
CV/CVN Purchase Cable Cycle Tests	220	440	220.00	5915	5915	0.00
CV/CVN Barricade Mfr	10	15	5.00	4500	4500	0.00
CV/CVN JBD Mfr	14	17	3.00	22324	22324	0.00
CV/CVN LLLV Overhaul	5	10	5.00	18944	18944	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	75015	75015	0.00
Total API:	N/A	N/A	N/A	232,959	232,959	0.00

NOTE: (1) FY95 shows no change in workload, manpower or productive ratio.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.1.b: Predicted Workload Variance For FY 1996

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	103478	119797	16,319.00
CV/CVN Cross Deck Pendants	563	1126	563.00	14192	14192	0.00
CV/CVN Purchase Cable Cycle Tests	200	400	200.00	5379	5379	0.00
CV/CVN Barricade Mfr	0	0	0.00	0	0	0.00
CV/CVN JBD Mfr	4	5	1.00	6573	6573	0.00
CV/CVN LLLV Overhaul	5	10	5.00	18954	18954	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	99420	115100	15,680.00
Total API:	N/A	N/A	N/A	247,996	279,995	31,999

NOTE: (1) FY96 shows no increase in personnel attributed to receipt of additional workload but increase in productive ratio because of more direct labor hours associated with receipt of additional work.

Table 2.1.c: Predicted Workload Variance For FY 1997

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	92065	158630	66,565.00
CV/CVN Cross Deck Pendants	563	1126	563.00	14192	14192	0.00
CV/CVN Purchase Cable Cycle Tests	220	440	220.00	5379	5379	0.00
CV/CVN Barricade Mfr	8	12	4.00	3600	3600	0.00
CV/CVN JBD Mfr	4	5	1.00	6573	6573	0.00
CV/CVN LLLV Overhaul	6	12	6.00	22740	22740	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	103817	178880	75,063.00
Total API:	N/A	N/A	N/A	248,366	389,994	141,628

NOTE: (1) FY97 presumes addition of 50 people above FY96 levels associated with receipt of additional workload and associated change in productive ratio from 65% to 80% as a result of increase in direct labor hours.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.1.d: Predicted Workload Variance For FY 1998

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	79210	175056	95,846.00
CV/CVN Cross Deck Pendants	563	1126	563.00	13578	13578	0.00
CV/CVN Purchase Cable Cycle Tests	200	400	200.00	5378	5378	0.00
CV/CVN Barricade Mfr	10	15	5.00	4500	4500	0.00
CV/CVN JBD Mfr	4	5	1.00	6692	6692	0.00
CV/CVN LLLV Overhaul	6	12	6.00	22740	22740	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	104999	232050	127,051.00
Total API:	N/A	N/A	N/A	237,097	459,994	222,897

NOTE: (1) FY98 presumes addition of 50 people above FY97 levels associated with re eipt of additional workload and continued productive ratio of 80%.

Table 2.1.e: Predicted Workload Variance For FY 1999

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work(1)	Potential Work	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	71168	184899	113,731.00
CV/CVN Cross Deck Pendants	563	1126	563.00	13580	13580	0.00
CV/CVN Purchase Cable Cycle Tests	220	440	220.00	5921	5921	0.00
CV/CVN Barricade Mfr	7	10	3.00	3150	3150	0.00
CV/CVN JBD Mfr	4	5	1.00	6720	6720	0.00
CV/CVN LLLV Overhaul	7	14	7.00	26523	26523	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	111315	289201	177,886.00
Total API:	N/A	N/A	N/A	238,377	529,994	291,617

NOTE: (1) FY99 presumes addition of 50 people above FY98 levels associated with receipt of additional workload and continued productive ratio of 80%.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Table 2.1.f: Predicted Workload Variance For FY 2000

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	66036	168550	102,514.00
CV/CVN Cross Deck Pendants	563	1126	563.00	13574	13574	0.00
CV/CVN Purchase Cable Cycle Tests	200	400	200.00	5385	5385	0.00
CV/CVN Barricade Mfr	0	0	0.00	0	0	0.00
CV/CVN JBD Mfr	4	5	1.00	6731	6731	0.00
CV/CVN LLLV Overhaul	6	12	6.00	22733	22733	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	122638	313021	190,383.00
Total API:	N/A	N/A	N/A	237,097	529,994	292,897

NOTE: (1) FY2000 maintains constant staffing from FY99 and continued productive ratio of 80%.

Table 2.1.g: Predicted Workload Variance For FY 2001

Commodity Type	Throughput (Units)			DLMHs		
Aircraft Platform Interface (API)	Predicted Work	Potential Work	Variance	Predicted Work	Potential Work(1)	Variance
ALRE						
Prototype, Limited Production and Direct Fleet Support	N/A	N/A	N/A	62047	156179	94,132.00
CV/CVN Cross Deck Pendants	563	1126	563.00	13579	13579	0.00
CV/CVN Purchase Cable Cycle Tests	220	440	220.00	5917	5917	0.00
CV/CVN Barricade Mfr	0	0	0.00	0	0	0.00
CV/CVN JBD Mfr	2	2	0.00	3500	3500	0.00
CV/CVN LLLV Overhaul	5	10	5.00	18939	18939	0.00
Support Equipment						
Production and Direct Fleet Support	N/A	N/A	N/A	131849	331880	200,031.00
Total API:	N/A	N/A	N/A	235,831	529,994	294,163

NOTE: (1) FY2001 maintains constant staffing from FY99 and continued productive ratio of 80%.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

PART II: HEADQUARTERS (MAJOR OWNERS & OPERATORS)

1. Interservicing Candidates

1.1 Specify all depot and/or industrial workload programs, performed by any of your activities, that are possible candidates for interservicing, *both* in to and out from the activity. Provide detailed supporting data for your recommendations.

2. Core Requirements

2.1 Given the current programmed configuration and operation for these activities, provide the projected Core Workload, Directed workload, Core "Plus" Workload, and Workload required to be retained to meet the Secretary of the Navy's Title 10 responsibilities. Within each Fiscal Year (FY) requested, provide your response in Units of throughput (where applicable) and Direct Labor Man Hours (DLMHs) for the categories in the following Tables. Core workload includes all Core work performed for other Military Departments (please specify such work within each commodity category).

Core workload calculations are to be performed in accordance with the Office of the Under Secretary of Defense (Logistics) (OUSD(L)) Memorandum dated 15 November 1993 (subject: "Policy for Maintaining Core Depot Maintenance Capability").

Directed workload includes: Foreign Military Sales (FMS); Low Quantity Non-Core; Low Quantity Above Core; Best Value; Engineering Support; and Last Source of Repair. Directed workload is tabulated in Section 2.2, following.

Core-Plus workload is the sum of Core workload and Directed workload.

Title 10 workload is that portion of Core workload that must be retained within the Department of the Navy in order to meet the Secretary of the Navy's Title 10 responsibilities.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.a: **Workload Requirements FY 1993***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1993 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.a: **Workload Requirements FY 1993**

FY 1993 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised Pg

N68335

Table 2.1.b: **Workload Requirements FY 1994***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1994 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.b: **Workload Requirements FY 1994**

FY 1994 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.c: **Workload Requirements FY 1995***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1995 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.c: **Workload Requirements FY 1995**

FY 1995 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.d: **Workload Requirements FY 1996***
***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1996 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.d: **Workload Requirements FY 1996**

FY 1996 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg
N68335

Table 2.1.e: **Workload Requirements FY 1997***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1997 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.e: **Workload Requirements FY 1997**

FY 1997 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.f: **Workload Requirements FY 1998***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1998 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.f: **Workload Requirements FY 1998**

FY 1998 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.g: **Workload Requirements FY 1999***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1999 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.g: **Workload Requirements FY 1999**

FY 1999 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.h: **Workload Requirements FY 2000***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 2000 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.h: **Workload Requirements FY 2000**

FY 2000 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.1.i: **Workload Requirements FY 2001***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 2001 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.i: **Workload Requirements FY 2001**

FY 2001 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

2.2 Given the current programmed configuration and operation of the NADEPs, provide the projected Directed Workload. Within each Fiscal Year (FY) requested, provide your response in units throughput (where available) and Direct Labor Man Hours (DLMHs) for the categories requested.

Foreign Military Sales (FMS) include airframe, engine and component maintenance and manufacturing support.

Modifications (Mods) include *only those modifications* performed concurrently with scheduled depot level work packages constituting Core workload.

Low Quantity Non-Core (LQNC) is that Non-Core workload with insufficient programmed quantity for competition. This category also includes above threshold Core workload for weapons systems which have a total projected workload greater than the computed core quantity (above core workload).

Best Value (BV) includes items that have been offered for maintenance under competitive rules and no offerer has provided a bid that is equal to or better than the value provided by a current organic source.

Engineering Support (Engr) consists of Engineering Support to field, modify, operate, and maintain aviation weapon systems (i.e. RCM analysis, defining maintenance intervals, developing maintenance concepts, modification management, industrial support, investigations, bulletins and flight safety, and environmental issues).

Last Source of Repair (LSOR) comprises Non-Core workload which has been offered for maintenance under competitive rules and no offerer has provided a bid, and for which a workload requirement exists and the organic depot is the only remaining source of repair.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.a: **Directed Workloads - FY 1993***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1993 Total:							

Table 2.2.a: **Directed Workloads - FY 1993**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1993 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.b: **Directed Workloads - FY 1994***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1994 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1994 Total:							

Table 2.2.b: **Directed Workloads - FY 1994**

FY 1994 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1994 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg
N68335

Table 2.2.c: **Directed Workloads - FY 1995***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1995 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1995 Total:							

Table 2.2.c: **Directed Workloads - FY 1995**

FY 1995 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1995 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.d: **Directed Workloads - FY 1996***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1996 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1996 Total:							

Table 2.2.d: **Directed Workloads - FY 1996**

FY 1996 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1996 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.e: **Directed Workloads - FY 1997***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1997 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1997 Total:							

Table 2.2.e: **Directed Workloads - FY 1997**

FY 1997 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1997 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised Pg
N68335

Table 2.2.f: **Directed Workloads - FY 1998***
***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1998 Total:							

Table 2.2.f: **Directed Workloads - FY 1998**

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1998 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.g: **Directed Workloads - FY 1999***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 1999 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1999 Total:							

Table 2.2.g: **Directed Workloads - FY 1999**

FY 1999 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1999 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.h: **Directed Workloads - FY 2000***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 2000 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2000 Total:							

Table 2.2.h: **Directed Workloads - FY 2000**

FY 2000 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2000 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

Table 2.2.i: **Directed Workloads - FY 2001***

***DOES NOT APPLY TO NAWCAD LAKEHURST** **(R)**

FY 2001 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2001 Total:							

Table 2.2.i: **Directed Workloads - FY 2001**

FY 2001 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2001 Total:							

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

3. Organization

3.1 Can the depot/industrial level workload be transferred to other sources such as other Navy activities, interservice to other DoD entities, or outsourced to commercial activities? Identify all applicable considerations to your recommendations.

Approximately 20 percent of Lakehurst's depot/industrial level workload consists of manufacturing and overhaul of Aircraft Launch and Recovery Equipment (ALRE) "flight critical items." Because of the catastrophic results of a single point failure, and the manufacturing-process-dependent requirement for quality, Lakehurst is the sole source supplier for these items, specifically, Cross Deck Pendant and Barricade manufacture, purchase cable testing, and launch valve overhaul. The remainder of our workload involves prototypes, limited production (usually as part of a specification package improvement/validation effort) and direct fleet support. These efforts consist of modification, repair, overhaul and manufacture of ALRE and Support Equipment (SE) in support of new product development, fleet emergencies and engineering investigations. Lakehurst is the only proven reliable source for several items essential to sustaining carrier aircraft operations completing manufacturing in several cases where a contract defaults. Due to the requirement for facilities, equipment and experienced personnel dedicated to providing manufacturing support for ALRE & SE, Lakehurst's depot/industrial level workload could not be transferred to other DOD entities without significant investments for capital equipment/facilities and commensurate outlays for artisan training or relocation of Lakehurst's workforce.

An attempt to transfer this workload to commercial activities would prove detrimental to fleet readiness. Because of the low quantities involved (5 LLLV's per year) and the requirement for unique manufacturing processes and expertise, past attempts to contract for these efforts have failed to generate enough interest from competent industry sources to generate continued product availability. Typically, interest is limited to small inexperienced companies. Often these companies have either been unable to deliver and resulted in default, or have been uninterested in attempting a second contract. Additionally, the investment in machinery to meet this sporadic requirement is extensive. Equipment which is essential to produce a critical component may be operated around the clock at Lakehurst to meet a fleet demand and then sit idle until the next emergency. The "payoff" in obtaining, manning, and maintaining such capabilities is not measured in dollars but in "mission capabilities". It is not generally "cost effective" for a private corporation to invest in or maintain machinery and associated equipment to meet the limited quantities and short turn-around times required for many of the items Lakehurst produces. Nor is it cost effective to the government to fund the start-up costs for a private company to do such small numbers.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

TAB D

ORDNANCE STORAGE CAPACITY

ORDNANCE STORAGE CAPACITY

Please answer the following questions if your activity performs any stowage or maintenance on any of the following ordnance commodities types:

ORDNANCE COMMODITY TYPES		
Mines	Expendables	LOE: Rockets
Torpedoes	INERT	LOE: Bombs
Air Launched Threat	CADS/PADS	LOE: Gun Ammo (20 mm-16")
Surface Launched Threat	Strategic Nuclear	LOE: Small Arms (up to 50 cal.)
Other Threat	Tactical Nuclear	LOE: Pyro/Demo Grenades/Mortars/Projectiles

1. Ordnance Stowage and Support

1.1 Provide present and predicted inventories (coordinate with inventory control manager) and maximum rated capability of all stowage facilities at each weapons storage location controlled by this activity. In predicting the out year facility utilization, distribute overall ordnance compliment to the most likely configuration. The maximum rated capability is also an out year projection taking into account any known or programmed upgrades that may increase current stowage capacity. When listing stowage facilities, group by location (e.g. main base, outlying field, special area).

Table 1.1: **Total Facility Ordnance Stowage Summary**

Facility Number	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY (1.1)	
	TONS	SQ FT	TONS	SQ FT	TONS	SQ FT
180 1BTX3	**4**	**1404**	**1.4 pc xxx or 40,000 Class A**	**1404**	*	**1404**
181 1BTX2		**750**		**900**	**125**	**1200**
182 1BTX1		**855**		**900**	**50**	**1200**
183	**.25**	**192**	**1.3-1/2**	**192**	*	**192**
184	**0**	**1377**	**1.4 pc**	**1370**	*	**1377**
5492SX2 2 Magazines	**0**	**80**		**80**	**1.4 pc** *	**80**
TOTAL **		**5941**		**5941**		**5941**

NOTES: * See TABLE 1.3.

** Total All Magazines = 5941 Square Feet.

*** Tonage change with Class of Ordnance

(Magazines are divided. 181, 182, and 549 are Joint Service Utilization by DARISSA)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1.2 For each Stowage facility identified in question 1.1 above, identify the type of facility (specify if "igloo", "box", etc.). Identify the type of ordnance commodity (from the list above) which are currently stowed in that facility and all other ordnance types which, given existing restrictions, could be physically accommodated in that stowage facility. Specify below if such additional accommodation would require a modification of the facility (e.g. enhanced environmental controls, ESQD waiver).

Identify the reason(s) for which this ordnance is stored at your facility from the following list: own activity use (training); own activity use (operational stock); Receipt/Segregation/ Stowage/Issue (RSSI); transhipment/awaiting issue; deep stow (war reserve); deep stow (awaiting Demil); other. Explain each "other" entry in the space provided, including ordnance stowed which is not a DON asset.

Table 1.2: **Total Facility Ordnance Stowage Summary**

Facility Number/Type	Currently Stowed Commodity Type(s)	Reaspm for Stowage at your Activity	Commodity Type(s) Which Can Be Stowed
HANGAR 1	INERT MINES, MISSILES BOMBS, TORPEDOES ROCKET LAUNCHERS GUN PODS ANTI PERSONNEL MINES (APAM)	OTHER/ TRAINING/ RSSI/TAI (1)	NOT A PROPER STORAGE FACILITY (1)
1BTX2/NS EARTH COVERED IGLOO	SMALL ARMS DEMOLITIONS GRENADES	TRAINING/ RSSI/ TAI/ DEEP STOW (W/R)	1.4 HAZARD RATING ONLY AT THIS TIME UNTIL WALL IS PUT BACK UP
1BTX1/NS EARTH COVERED IGLOO	SMALL ARMS DEMOLITION GRENADES	TRAINING/RSSI/TAI/ DEEP STOW (W/R)	1.2/3/4 HAZARD RATING ONLY AT THIS TIME
2SX2/NS EARTH COVERED IGLOO	SMALL ARMS GRENADES	TRAINING/RSSI/TAI	SMALL ARMS
2SX1/NS EARTH COVERED IGLOO	SMALL ARMS	TRAINING	SMALL ARMS
1BTX3/IGLOO EARTH COVERED/NON STANDARD/BLDG 180	SMALL ARMS AMMO/ DETONATORS ELECTRICAL/DOG SCENT KIT/EARTH ANCHOR KIT CHANGES	RSSI/ DEEP STOW (W/R) TRAINING	1.1 THRU 1.4 HAZARD RATING WITH EXCEPTION OF FORWARD FIRING ORDNANCE (ROCKETS, MISSILES, ETC.)
1HT4 IGLOO/ EARTH COVERED NON STANDARD	GRENADES/ FILE DESTROYERS/ PYRO	OTHER/RSSI DEEP STOW (W/R) TRAINING	1.2 THRU 1.4 HAZARD RATING (2)
1Y5B NS ABOVE GROUND	INERT MATERIAL	RSSI/ENGINEERING INVESTIGATION OF AIRCRAFT EQUIPMENT UNDER INVESTIGATION	SMALL ARMS (3)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

IY5A NS ABOVE GROUND	INERT MATERIAL	RSSI/DEEP STOW	SMALL ARMS (3)

NOTES: (1) Storage of inert ordnance for Ship Weapons Evaluation Facility (SWEF) is in Hangar 1. Storage requirement is 15,000 sq. ft.
(2) Ordnance compatibility requirements must be met for storage.
(3) 1Y5A and 1Y5B are presently being used for the storage of equipment under investigation by Product Evaluation and Development Department.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

1.3 Identify the rated category, rated NEW and status of ESQD arc for each stowage facility listed above.

Table 1.3: **Facility Rated Status**

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date
180 1BTX3	**1.1** **1.2/3/4**	**40,000** **PC**	**Y** **Y**	**N** **N**	
181 1BTX2	**1.2/3/4**	**PC**	**Y**	**N**	
182 1BTX1	**1.2/3/4**	**PC**	**Y**	**N**	
183 1HT4	**1.2** **1.3** **1.4**	**10** **1000** **PC**	**Y** **Y** **Y**	**N** **N** **N**	
184 1Y5A **1 Y5B**	**1.3** **1.4** **1.3** **1.4**	**6000** **PC** **6000** **PC**	**Y** **Y** **Y** **Y**	**N** **N** **N**	
549 2SX1	**1.4** **1.3**	**PC** **500**	**Y** **Y**	**N** **N**	
549 2SX2	**1.4** **1.3**	**PC** **500**	**Y** **Y**	**N** **N**	
HANGAR 1	**Storage of inert material for SWEF**	***See Remarks**			

***REMARKS: Hangar 1 is currently being used as the storage facility for inert ordnance (missiles, general purpose bombs, gun pods, etc.). This aircraft ordnance is used for test and evaluation aboard U.S. Naval vessels, i.e., ship installation assurance tests.**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

1.4 Identify any restrictions which prevent maximum utilization of your facilities. If restrictions are based on facility conditions, specify reason, the cost to correct the deficiency, and identify any programmed projects that will correct the deficiency and/or increase your capability.

HANGAR 1 - Required space is 15,000 square feet.
DRAINAGE - Need for road improvement and drainage system as per NAVSEA Explosive Safety Inspection. Roads need black top - Cost of approximately $190,000.
LIGHTNING PROTECTION SYSTEM - $120,000.

1.5 Identify if your activity performs any of the following functions on any of the ordnance commodities previously listed. Technical support includes planning, financial, administrative, process engineering and SOP support. Within each related function identify each ordnance commodity type for which you provide these services and the total Direct Labor Man Hours (DLMHs) expended (FY 1994); identify only those DLMHs expended by personnel under your command.

Table 1.5: **Related Ordnance Support**

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level)	**Y(R)**	**Magazines/Small Arms Weapons(R)**	**4,902(R)**
Testing	**Y**	**Missiles/Bombs/Gun Pods/ Rocket Pods/ Mines/Torpedoes/ Earth Anchors/ Small Arms**	**0(R)**
Manufacturing			
Outload	**Y**	**Missiles/Bombs/Gun Pods/Rocket Pods/ Mines/Torpedoes/ Earth Anchors/ Small Arms**	**0(R)**
Technical Support	**Y**	**Missiles/ Bombs/Gun Pods/Rockets/Mines/ Torpedoes/ Earth Anchors**	**7,912(R)**

REMARKS: The hours are estimated due to the inspection, test, and evaluation of commodities and the frequency of test and evaluation.

1.4 Identify any restrictions which prevent maximum utilization of your facilities. If restrictions are based on facility conditions, specify reason, the cost to correct the deficiency, and identify any programmed projects that will correct the deficiency and/or increase your capability.

HANGAR 1 - Required space is 15,000 square feet.
DRAINAGE - Need for road improvement and drainage system as per NAVSEA Explosive Safety Inspection. Roads need black top - Cost of approximately $190,000.
LIGHTNING PROTECTION SYSTEM - $120,000.

1.5 Identify if your activity performs any of the following functions on any of the ordnance commodities previously listed. Technical support includes planning, financial, administrative, process engineering and SOP support. Within each related function identify each ordnance commodity type for which you provide these services and the total Direct Labor Man Hours (DLMHs) expended (FY 1994); identify only those DLMHs expended by personnel under your command.

Table 1.5: **Related Ordnance Support**

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level)			
Testing	**Y**	**Missiles/Bombs/Gun Pods/ Rocket Pods/ Mines/Torpedoes/ Earth Anchors/ Small Arms**	**7,000 Estimate**
Manufacturing			
Outload	**Y**	**Missiles/Bombs/Gun Pods/Rocket Pods/ Mines/Torpedoes/ Earth Anchors/ Small Arms**	**15,000 Estimate**
Technical Support	**Y**	**Missiles/ Bombs/Gun Pods/Rockets/Mines/ Torpedoes/ Earth Anchors**	**19,000 Estimate**

REMARKS: The hours are estimated due to the inspection, test, and evaluation of commodities and the frequency of test and evaluation.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

NAWC AD LAKEHURST

DATA CALL 4
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

MAY 12 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION PATUXENT RIVER, MD
Activity

*NAVAIR did not provide data for inclusion in this package.

Data Call #4
Audit Changes
Lakehurst

pg 2, table 1.3
pg 17, 18, 25 162
- Tab C, 21, 22, 23, 24 25, 26, 27, 28
29, 31-39 Tab D, 5

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 Sep 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/23/94
Date

DATA CALL 4
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

2 Sept 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ
Activity

Document Separator

N68335

162

NAVAL AIR WARFARE CENTER

AIRCRAFT DIVISION LAKEHURST

UIC: N68335

ENVIRONMENTAL DATA CALL: 33
DATA CALL TO BE SUBMITTED TO
ALL NAVY/MARINE CORPS HOST ACTIVITIES

maps w/ original

1 JUNE 1994

BRAC 1995 ENVIRONMENTAL DATA CALL: 33
All Navy/Marine Corps Host Activities

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

INDEX

Section	Page
LIST OF TENANT ACTIVITIES	3
ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT	4
WETLANDS	5
CULTURAL RESOURCES	6
ENVIRONMENTAL FACILITIES	7
AIR POLLUTION	11
ENVIRONMENTAL COMPLIANCE	14
INSTALLATION RESTORATION	15
LAND/AIR/WATER USE	17
WRAP-UP	21

Provide a list of tenant activities that are covered in this response.

ACTIVITY	UIC
NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION, TRENTON DETACHMENT	N62376
NAVAL FACILITIES COMMAND NORTHERN DIVISION, PHILADLPHIA	N44207
NAVAL TELECOMMUNICATION COMMAND NAVTELCOMCEN	N33241
NAVY EXCHANGE	N66256
DEFENSE PRINTING SERVICE DETACHMENT BRANCH OFFICE	N43633
DEFENSE COMMISSARY AGENCY	N49190
NAVAL INVESTIGATIVE SERVICE	N63285
PERSONNEL SUPPORT ACTIVITY	N43313
NAVAL DENTAL CLINIC	N66023
NAVAL MEDICAL CLINIC	N68101
NAVAL AIR TECHNICAL TRAINING CENTER DETACHMENT	N63094
NAVAL MOBILE CONSTRUCTION BATTALION 21	N08861
US ARMY CECOM AIRBORNE ENGINEERING EVALUATION SUPPORT ACTIVITY	WRBYAA
U.S. ARMY (DARISSA)	WZZ321
DEFENSE REUTILIZATION AND MARKETING OFFICE	SX1272
OCEAN COUNTRY VOCATIONAL TECHNICAL SCHOOL	N/A
DEFENSE FINANCE AND ACCOUNTING SERVICE	DoD
HUMAN RESOURCES OFFICE	N00421

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

1a. For federal or state listed endangered, threatened, or category 1 plant and/or animal species on your base, complete the following table. Critical/sensitive habitats for these species are designated by the U. S. Fish and Wildlife Service (USFWS). A species is present on your base if some part of its life-cycle occurs on Navy controlled property (e.g., nesting, feeding, loafing). Important Habitat refers to that number of acres of habitat that is important to some life cycle stage of the threatened/endangered species that is not formally designated.

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical/ Designated Habitat (Acres)	Important Habitat (acres)
Hyla andersoni - Pine Barrens Tree Frog	NJ-E			400
Clemmys muhlenbergi - Bog Turtle	NJ-E	C2		20
Pituophis melanoleucus melanoleucus - N. Pine Snake	NJ-T	C2		2000
Ammodramus henslowii - Henslow's sparrow	NJ-E	C2		700
Pandion haliaetus - Osprey	NJ-T			20
Strix varia - Barred owl	NJ-T			20
Ammodramus Savannarum - Grasshopper sparrow	NJ-T			700
Bartramia longicauda - Upland sandpiper	NJ-E			700
Circus cyaneus - Northern harrier	NJ-E			700
Agrotis buchholzi - Buchholz' dart moth		C2		200
Spartiniphaga carterae - Carter's noctuid moth		C2		200
Crannbus daeckellus - Daecke's pyralid moth		C2		300
Calamovilfa brevipilis - Pine Barrens Reed Grass	NJ-T			200
Muhlenbergia torreyana - Torrey's muhlenbergia	NJ-T			20
Carex barrattii - Barrett's sedge	NJ-T			200
Scleria minor - Slender Nut Rush	NJ-T			200
Utricularia purpurea - Purple Bladderwort	NJ-T			20
Chrysopsis falcata - sickle leaved golden aster	NJ-T			200

Source Citation: 1988-89 Endangered/Threatened Species Survey

N68335

Revised pg

1d.

Have any efforts been made to relocate any species and/or conduct any mitigation with regards to critical habitats or endangered/threatened species? Explain what has been done and why	**NO**

No relocations or mitigations have been needed.

1e.

Will any state or local laws and/or regulations applying to endangered/threatened species which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	**N/A(R)**

Current reauthorization of Federal T&E legislation would not affect current NAWCAD Lakehurst operations.

2. **WETLANDS**

Note: Jurisdictional wetlands are those areas that meet the wetland definitional criteria detailed in the Corps of Engineers (COE) Wetland Delineation Manual, 1987, Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, MS or officially adapted state definitions.

2a.

Does your base possess federal jurisdictional wetlands?	**YES**
Has a wetlands survey in accordance with established standards been conducted for your base?	**YES**
When was the survey conducted or when will it be conducted? **1988 & 1989**	
What percent of the base has been surveyed?	
What is the total acreage of jurisdictional wetlands present on your base?	**1700**

Source Citation: **USDA/SCS Wetlands Mapping of Navy Lakehurst**

5

(R) 16 AUG 94

ENCLOSURE (4)

1b.

Have your base operations or development plans been constrained due to: - USFWS or National Marine Fisheries Service (NMFS)? - State required modifications or constraints? If so, identify below the impact of the constraints including any restrictions on land use.	**NO**
Are there any requirements resulting from species not residing on base, but which migrate or are present nearby? If so, summarize the impact of such constraints.	**NO**

1c. If the area of the habitat and the associated species have not been identified on base maps provided in Data Call 1, submit this information on an updated version of Data Call 1 map. See page 5a. KC 6/21/94 AIR-0983

1d.

Have any efforts been made to relocate any species and/or conduct any mitigation with regards to critical habitats or endangered/threatened species? Explain what has been done and why.	**NO**

No relocations or mitigations have been needed.

1e.

Will any state or local laws and/or regulations applying to endangered/threatened species which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	**NO**

Current reauthorization of Federal Threatened and Endangered legislation would not affect current NAWCAD Lakehurst operations.

2. WETLANDS

Note: Jurisdictional wetlands are those areas that meet the wetland definitional criteria detailed in the Corps of Engineers (COE) Wetland Delineation Manual, 1987,
Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, MS or officially adapted state definitions.

2a.

Does your base possess federal jurisdictional wetlands?	**YES**
Has a wetlands survey in accordance with established standards been conducted for your base?	**YES**
When was the survey conducted or when will it be conducted? **1988 & 1989**	
What percent of the base has been surveyed?	**100%**
What is the total acreage of jurisdictional wetlands present on your base?	**1700**

Source Citation: **USDA/SCS Wetlands Mapping of Navy Lakehurst**

2b. If the area of the wetlands has not been identified on base maps provided in Data Call 1, submit this on an updated version of Data Call 1 map. **See Attachment #1**

2c. Has the EPA, COE or a state wetland regulatory agency required you to modify or constrain base

operations or development plans in any way in order to accommodate a jurisdictional wetland? YES
If YES, summarize the results of such modifications or constraints.

New mobile home park (base housing) had locations slightly modified.

3. CULTURAL RESOURCES

3a.

Has a survey been conducted to determine historic sites, structures, districts or archaeological resources which are listed, or determined eligible for listing, on the National Register of Historic Places? If so, list the sites below.	**NO**

1. A draft Cultural Resources Survey is presently under review. This survey, when finalized, may indicate the possibility for listing of a district and associated buildings which, with Hangar 1, were connected to the Lighter Than Airship Programs.

2. Hangar 1 is listed on the National Register of Historic Places. Hangar 1 was listed on 23 May 1968 as a Historical Landmark.

3. Building #120 was formally identified by the Deputy State Historic Preservation Officer of New Jersey as being eligible for the National Register of Historic Places on 10 March 1993

3b.

Has the President's Advisory Council on Historic Preservation or the cognizant State Historic Preservation Officer required you to mitigate or constrain base operations or development plans in any way in order to accommodate a National Register cultural resource? If YES, list the results of such modifications or constraints below.	**YES**

1. The State Historic Preservation Office (SHPO) has not required any mitigation or constraints to Center operations or development plans in Hangar 1, which is listed on the National Register.

2. However, SHPO has, on the other hand, constrained plans for Building #120, determining that it is possibly eligible for listing on the National Register. This required that we change the way an elevator is to be incorporated into the building to meet Handicap Accessibility standards.

3. With finalization of the Cultural Resources Survey and concurrence by its office, NAWCAD Lakehurst will seek a Memorandum of Agreement with SHPO. This will provide an understanding between this Center and SHPO as to what is eligible for listing and what can be done to Hangar 1 and the proposed district to streamline the planning process for facilities at NAWCAD Lakehurst.

3c.

Are there any on base areas identified as sacred areas or burial sites by Native Americans or others? List below.	**NO**

Revised pg N68335

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					YES* (R)
Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status	Comments
Solvent recovery	NA	30 gal	55 gal	NA	
Paper, cardboard metals, yard waste					Collect for processing off base
Petroleum contaminated earth	pending	600-700 tons(R)	200 tons/hr (R)	pending	Final product used for road construction

(R)

*Recycling only as listed above.(R)

List any permit violations and projects to correct deficiencies or improve the facility.

No violations. FY94 project under design to provide heat at solvent recovery building.

4d.

Does your base own/operate a Domestic Wastewater Treatment Plant (WWTP) ?					NO
ID/Location of WWTP	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status	Level of Treatment/Year Built

List permit violations and discuss any projects to correct deficiencies.

4e. If you do not have a domestic WWTP, describe the average discharge rate

4. ENVIRONMENTAL FACILITIES

Notes: If your facility is permitted for less than maximum capacity, state the maximum capacity and explain below the associated table why it is not permitted for maximum capacity. Under "Permit Status" state when the permit expires, and whether the facility is operating under a waiver. For permit violations, limit the list to the last 5 years.

4a.

Does your base have an operating landfill?					NO
ID/Location of Landfill	Permitted Capacity (CYD)		Maximum Capacity (CYD)	Contents[1]	Permit Status
	TOTAL	Remaining			

[1] Contents (e.g. building demolition, asbestos, sanitary debris, etc)

Are there any current or programmed projects to correct deficiencies or improve the facility.

Yes, the old landfill is part of the Installation Restoration Program.

4b. If there are any non-Navy users of the landfill, describe the user and conditions/agreements.

NONE

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					YES
Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status	Comments
Solvent recovery	NA	30 gal	55 gal	NA	
Paper, cardboard metals, yard waste					Collect for processing off base
Petroleum contaminated earth	Pending	800 tons	1000 tons	Pend-ing	Final product used for road construction

List any permit violations and projects to correct deficiencies or improve the facility.

No violations. FY94 project under design to provide heat at solvent recovery building.

Revised 8/8

N68335

of your base to the local sanitary sewer authority, discharge limits set by the sanitary sewer authority (flow and pollutants) and whether the base is in compliance with their permit. Discuss recurring discharge violations. **N/A**

Average discharge rate: **6,000,000 gal/month (R)**
Discharge limits: **There are no limits on flow, and the base is within specific limits on various discharge parameters. NAWCAD Lakehurst is in compliance. There have been no violations.**

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					YES
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status
NJPDES 0004642	Equalization /Oil/Water Separator	N/A	0.040 MGD	0.288 MGD	NJDEPE Review of renewal appl.

List any permit violations and projects to correct deficiencies or improve the facility.

No permit violations. Projects to increase capacity of system lift stations and equalization basin are near completion.

4g. Are there other waste treatment flows not accounted for in the previous tables? Estimate capacity and describe the system.

No.

4d.

Does your base own/operate a Domestic Wastewater Treatment Plant (WWTP) ?					NO
ID/Location of WWTP	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status	Level of Treatment/ Year Built

List permit violations and discuss any projects to correct deficiencies.

4e. If you do not have a domestic WWTP, describe the average discharge rate of your base to the local sanitary sewer authority, discharge limits set by the sanitary sewer authority (flow and pollutants) and whether the base is in compliance with their permit. Discuss recurring discharge violations. **N/A**

Average discharge rate: 60,000,000 gal/month
Discharge limits: There are no limits on flow, and the base is within specific limits on various discharge parameters. NAWCAD Lakehurst is in compliance. There have been no violations.

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					YES
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status
NJPDES 0004642	Equalization/ Oil/Water Separator	N/A	0.040 MGD	0.288 MGD	NJDEPE Review of renewal appl.

List any permit violations and projects to correct deficiencies or improve the facility.

No permit violations. Projects to increase capacity of system lift stations and equalization basin are near completion.

4g. Are there other waste treatment flows not accounted for in the previous tables? Estimate capacity and describe the system.

No.

4h.

Does your base operate drinking Water Treatment Plants (WTP)?					YES
ID/Location of WTP	Operating (GPD)		Method of Treatment	Maximum Capacity	Permit Status
	Permitted Capacity	Daily Rate			
1511010/ Hill	*	350,000	lime/ chlorination	463,680	Active
1511303/ Test	*	51,320	soda/ chlorination	927,360	Active
1511330/ Helo	*	523	chlorination	144,000	Active

List permit violations and projects/actions to correct deficiencies or improve the facility.

No permit violations. A military construction project MIL-P-211 presently under design (FY95 construction) for PWID1511010 & PWID 151303 will increase Storage and Supply for 1511010 and supply for 151303.

*** Maximum water allocation for NAWCADLKE is 21 million gallons/month at a maximum rate of 2860 gpm.**

4i. If you do not operate a WTP, what is the source of the base potable water supply. State terms and limits on capacity in the agreement/contract, if applicable. **N/A**

4j.

Does the presence of contaminants or lack of supply of water constrain base operations. Explain.	NO

No base operations are constrained by contaminants or lack of supply; however, NAWCAD Lakehurst requires additional capacity and supply for the Hill Water System to meet state requirements. Once the MILCON is completed, NAWCAD Lakehurst will not only exceed regulation requirements, but also would be able to accommodate additional activities.

4k.

Other than those described above does your base hold any NPDES or stormwater permits? If YES, describe permit conditions.	YES
If NO, why not and provide explanation of plan to achieve permitted status.	

NAWCAD Lakehurst's current NJPDES permit is a multiple discharge point permit. It includes all discharges of stormwater associated with industrial activities as well as all industrial discharges at the facility.

4l.

Does your base have bilge water discharge problem?	NO
Do you have a bilge water treatment facility?	NO

Explain: **NAWCAD Lakehurst does not have any bilges.**

4m.

Will any state or local laws and/or regulations applying to Environmental Facilities, which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	**NO**

No new legislation will adversely affect Center operations or development plans. NAWCAD Lakehurst has always been proactive to legislative requirements.

4n. What expansion capacity is possible with these Environmental Facilities? Will any expansions/upgrades as a result of BRACON or projects programmed through the Presidents budget through FY1997 result in additional capacity? Explain.

A new water MILCON is under design and will be completed in FY95. This will substantially increase the capacity for storing and pumping potable water at NAWCAD Lakehurst. In addition, this Center is tied into the county Utility Authority so there is no limit to its sanitary discharge. This leaves the NAWCAD Lakehurst in an excellent position to accommodate additional activities/missions.

4o. Do capacity limitations on any of the facilities discussed in question 4 pose a present or future limitation on base operations? Explain.

No. NAWCAD Lakehurst has excess permit capacity on its potable water allocation permit and an unlimited sanitary wastewater discharge. The workload of the industrial wastewater is also being increased with present system improvements being implemented.

5. AIR POLLUTION

5a.

What is the name of the Air Quality Control Areas (AQCAs) in which the base is located? **Ozone - New York, Northern New Jersey, Long Island Area. CO - Region 150 - New Jersey Interstate.**
Is the installation or any of its OLFs or non-contiguous base properties located in different AQCAs? __NO__. List site, location and name of AQCA.

5b. For each parcel in a separate AQCA fill in the following table. Identify with and "X" whether the status of each regulated pollutant is: attainment/non-attainment/maintenance. For those areas which are in non-attainment, state whether they are: Marginal, Moderate, Serious, Severe, or Extreme. State target attainment year.

Site: **Naval Air Warfare Center Aircraft Division Lakehurst** AQCA: **New York, Northern New Jersey, Long Island area**

Pollutant	Attain-ment	Non-Attainment	Mainten-ance	Target Attainment Year[1]	Comments[2]
CO	X				REGION 150, NJ INTER-STATE
Ozone		X Severe		2007	
PM-10	X				
SO^2	X				
NO^2	X				
Pb	X				

[1] Based on national standard for Non-Attainment areas or SIP for Maintenance areas.

[2] Indicate if attainment is dependent upon BRACON, MILCON or Special Projects. Also indicate if the project is currently programmed within the Presidents FY1997 budget.

5c. For your base, identify the baseline level of emissions, established in accordance with the Clean Air Act. Baseline information is assumed to be 1990 data or other year as specified. Determine the total level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

Note: Calculations & Sources in Attachment #2, Pages 3-16.

	Emission Sources (Tons/Year) 1991 *				
Pollutant	**Permitted Stationary**	**Personal Automobiles**	**Aircraft Emissions**	**Other Mobile**	**Total**
CO	**7.738**	**24.34**	**6.2**	**1.95**	**40.23**
NOx	**72.16**	**2.38**	**48.7**	**0.445**	**123.69**
VOC	**6.152**	**1.76**	**0.277**	**0.246**	**8.44**
PM10	**11.475**		**24.4**		**35.88**

Source Document: **Engineering Air Pollution Study (Contract #62472-90-D-1298), Northern Division, Naval Facilities Engineering Command, AP-42-Compilation of Air Pollution Emission Factors**

***First Year of Available Data - except for aircraft.**

5d. For your base, determine the total FY1993 level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

	Emissions Sources (Tons/Year)				
Pollutant	**Permitted Stationary**	**Personal Automobiles**	**Aircraft Emissions**	**Other Mobile**	**Total**
CO	**1.742**	**18.44**	**5.2**	**1.48**	**26.86**
NOx	**17.58**	**1.8**	**41.0**	**0.337**	**60.72**
VOC	**3.557**	**1.33**	**0.23**	**0.186**	**5.30**
PM10	**2.769**		**20.5**		**23.27**

Source Document: **AP-42 Compilation of Air Pollution Emission Factors**

5e. Provide estimated increases/decreases in air emissions (Tons/Year of CO, NOx, VOC, PM10) expected within the next six years (1995-2001). Either from previous BRAC realignments and/or previously planned downsizing shown in the Presidents FY1997 budget. Explain.

We predict a decrease in CO and NO^x by approximately 2% within the next 6 years due to widespread conversion to cleaner fuels. Also contributing will be the Employer Trip Reduction Plan to be initiated in November 1994 and the 23 January 1994 NO^x RACT Rule. It is estimated that VOC and PM10 will be relatively unchanged.

5f. Are there any critical air quality regions (i.e. non-attainment areas, national parks, etc.) within 100 miles of the base?

N683 55

NAWCAD Lakehurst, as is the entire state of New Jersey, is located in a non-attainment area for ozone. Within 100 miles are
National Historic Parks: Independence (PA), Morristown (NJ), Valley Forge (PA)
National Monuments: Statue of Liberty (NJ)
National Historic Site: Edison (NJ)
National Scenic River/Riverways: Delaware River
Upper Delaware
National Recreational Areas: Gateway (NJ/NY)
National Scenic Trail: Appalachian
National Memorials: Benjamin Franklin
Pinelands National Reserve

Source: Information Please Almanac

5g. Have any base operations/mission/functions (i.e.: training, R&D, ship movement, aircraft movement, military operations, support functions, vehicle trips per day, etc.) been restricted or delayed due to air quality considerations. Explain the reason for the restriction and the "fix" implemented or planned to correct.

No. Currently, all equipment associated with the mission of this Center has been permitted for operation 24 hours per day, seven days per week.

5h. Does your base have Emission Reduction Credits (ERCs) or is it subject to any emission offset requirements? If yes, provide details of the sources affected and conditions of the ERCs and offsets. Is there any potential for getting ERCs?

No. At this time there is no potential for ERCs.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg N68335

6. ENVIRONMENTAL COMPLIANCE

6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7 or recurring costs included in question 6c. For the last two columns provide the combined total for those two FY's.

Program	Survey Com-pleted ?	Costs in $K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air		450(R)	430(R)	3,970 (R)	10,000 (R)	200(R)	200(R)
Hazardous Waste/Spill respnse		159 (R)	-(R)	-(R)	-(R)	-(R)	-(R)
Safe Drinking Water Act		347 (1) (R)	60(R)	54(R)	-(R)	260(R)	260(R)
PCBs		200(1) (R)	-(R)	-(R)	-(R)	-(R)	-(R)
Other (non-PCB) Toxic Substance Control Act		75	50	50	30	50	20
Lead Based Paint		24(R)	200(R)	-(R)	-(R)	-(R)	-(R)
Radon		50(2) (R)	100	700	-(R)	-	-
Clean Water Act		502(R)	1,780 (R)	3,710 (R)	340(R)	610(R)	610(R)
Solid Waste		-(R)	75(R)	100(R)	20(R)	170(R)	170(R)
Oil Pollution Act		-(R)	-(R)	-(R)	-(R)	-(R)	-(R)
USTs		150(3) (R)	-(R)	50(R)	-(R)	-	-
Other		889(4) (R)	1,002 (5)(R)	930(6) (R)	910(7) (R)	2,210 (8)(R)	500(R)

(R)

6. ENVIRONMENTAL COMPLIANCE

6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7 or recurring costs included in question 6c. For the last two columns provide the combined total for those two FY's.

Program	Survey Completed?	Costs in $K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air	On-going	200	500	2,500	7,000	400	500
Hazardous Waste	On-going	200	250	270	300	600	500
Safe Drinking Water Act	On-going	60	80	80	120	200	200
PCBs	Yes	75	100	100	50	100	50
Other (non-PCB) Toxic Substance Control Act	On-going	75	50	50	30	50	20
Lead Based Paint	On-going	300	800	800	500	750	750
Radon	Yes	50	100	700	100	-	-
Clean Water Act	On-going	850	1,700	2,700	450	500	550
Solid Waste	Yes	50	70	70	50	600	200
Oil Pollution Act	On-going	100	100	150	150	200	200
USTs	Yes	100	200	200	50	-	-
Other	On-going	200	200	200	150	300	300
Total		2,260	4,150	7,820	8,950	3,700	3,270

Revised pg

N68335

Total		**2,796 (R)**	**3,647 (R)**	**9,514 (R)**	**11,270 (R)**	**3,450 (R)**	**1,740 (R)**

(R)

NOTES:
(1) See FY94 command plan
(2) Included in "air" costs
(3) Includes $100K for modification to ASTs. (See attached command plan.)
(4) Included asbestos removal/equipment and training
(5) Includes asbestos, wetlands restoration, reforestation, training
(6) Includes asbestos, archeological investigation, training
(7) (Includes asbestos training
(8) Includes asbestos, endangered **(R)**

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

See Attachment #3.

6b. Does your base have structures containing asbestos? **YES** What % of your base has been surveyed for asbestos? **37% (R)** Are additional surveys planned? **YES** What is the estimated cost to remediate asbestos ($K) **15M*** . *** CANNOT ESTIMATE WITHOUT COMPLETED SURVEY.** Are asbestos survey costs based on encapsulation, removal or a combination of both? **REMOVAL.** **(R)**
*NOTE: Estimated cost for removal of asbestos for 16 buildings (1990 BCM survey worst case) is estimated to be $15M. 34 additional buildings were surveyed in 1992 by BCM, but removal costs were not included. Estimations of cost of removal for these buildings would take some time, but the cost would appear not to exceed the total of $15M of the original 16 buildings due to content of asbestos containing materials.

6c. Provide detailed cost of recurring operational (environmental) compliance costs, with funding source.

Funding Source	**FY92**	**FY93**	**FY94**	**FY95**	**FY96**	**FY97**	**FY98-99**	**FY00-01**
O&MN								
HA								
PA								
Other (DBOF)	300	300	500	1,000	1,500	1,500	1,000	1,000
TOTAL	**300(R)**	**300(R)**	**500(R)**	**1,000**	**1,500**	**1,500**	**1,000**	**1,000**

(R)

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base. **NO**

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date.

See Attachment #3.

6b. Does your base have structures containing asbestos? YES What % of your base has been surveyed for asbestos? 39% Are additional surveys planned? YES What is the estimated cost to remediate asbestos ($K) 15M*. * **CANNOT ESTIMATE WITHOUT COMPLETED SURVEY.** Are asbestos survey costs based on encapsulation, removal or a combination of both? **REMOVAL.**

***NOTE: Estimated cost for removal of asbestos for 16 buildings (1990 BCM survey worst case) is estimated to be $15M. 34 additional buildings were surveyed in 1992 by BCM, but removal costs were not included. Estimations of cost of removal for these buildings would take some time, but the cost would appear not to exceed the total of $15M of the original 16 buildings due to content of asbestos containing materials.**

6c. Provide detailed cost of recurring operational (environmental) compliance costs, with funding source.

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN								
HA								
PA								
Other (DBOF)	300	300	500	1,000	1,500	1,500	1,000	1,000
TOTAL	**300**	**300**	**500**	**1,000**	**1,500**	**1,500**	**1,000**	**1,000**

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base. **NO**

7. INSTALLATION RESTORATION

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	**YES**
Is your base an NPL site or proposed NPL site?	**YES**

7b. Provide the following information about your Installation Restoration (IR) program. Project list may be provided in separate table format. Note: List only projects eligible for funding under the Defense Environmental Restoration Account (DERA). Do not include UST compliance projects properly listed in section VI.

SEE ATTACHMENT #4.

Site # or name	Type site[1]	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete ($M)/ Est. Compl. Date	Status[2]/Comments

[1] Type site: CERCLA, 'RCRA corrective action (CA), UST or other (explain)
[2] Status = PA, SI, RI, RD, RA, long term monitoring, etc.

7c. Have any contamination sites been identified for which there is no recognized/accepted remediation process available? List. **NO**

7d.

Is there a groundwater treatment system in place?	**YES**
Is there a groundwater treatment system planned?	**YES**

State scope and expected length of pump and treat operation.

Four pump & treat facilities are operating at NAWCAD Lakehurst. Ground water treatment in Area E is expected to be complete in 1996, Area H in 2007, Area C in 2010, and Area A in 2020.

7e.

Has a RCRA Facilities Assessment been performed for your base?	**YES**

7f. Does your base operate any conforming storage facilities for handling **hazardous materials**? If YES, describe facility, capacity, restrictions, and permit conditions.

YES. This is a supply function and does not require a permit. All storage is in compliance with Navy standards for Hazmat. NAWCAD Lakehurst does not have the capacity for the storage of explosives or radioactive material.

7g. Does your base operate any conforming storage facilities for handling **hazardous waste**? If YES, describe facility, capacity, restrictions, and permit conditions.

NO. This Center is not permitted as a TSD facility, only has generator status.

7h. Is your base responsible for any non-appropriated fund facilities (exchange, gas station) that require cleanup? If so, describe facility/location and cleanup required/status.

NO.

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	**NO**

7j. Have any base operations or development plans been restricted due to Installation Restoration considerations? **NO.**

7k. List any other hazardous waste treatment or disposal facilities not included in question 7b above. Incude capacity, restrictions, and permit conditions. **NONE.**

8. LAND / AIR / WATER USE

8a. List the acreage of each real estate component controlled or managed by your base (e.g., Main Base - 1,200 acres, Outlying Field -200 acres, Remote Range - 1,000 acres, remote antenna site - 5 acres, Off-Base Housing Area - 25 acres).

Parcel Descriptor	Acres	Location
Main Base	7,409	Lakehurst, NJ
Special Area - Pinehurst Estates (Housing Area)	21	Lakehurst, NJ

Revised pg

N68335

Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		3,327
Total Undeveloped land considered to be without development constraints		941(R)
Total Off-base lands held for easements/lease for specific purposes		61.7 (1)
Breakout of undeveloped, restricted areas. Some restricted areas may overlap:	ESQD **Magazine** **Bldg. 549**	 **136.4 Acres** **10.1 Acres**
	HERF	**NONE**
	HERP	**NONE**
	HERO	**55.0 ACRES**
	AICUZ	**3,240**
	Airfield Safety Criteria	**1,389**
	Other	

(R)

8c. How many acres on your base (includes off base sites) are dedicated for training purposes (e.g., vehicular, earth moving, mobilization)? This does not include buildings or interior small arms ranges used for training purposes.

Jump Circle **288 acres**

Pistol Range **277 acres**

8b. Provide the acreage of the land use categories listed in the table below:

LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.)		1,574
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		Wetlands: 1,700
		All Others:
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		3,327
Total Undeveloped land considered to be without development constraints		951
Total Off-base lands held for easements/lease for specific purposes		61.7 (1)
Breakout of undeveloped restricted areas. Some restricted areas may overlap:	ESQD	
	Magazine	136.4 Acres
	Bldg. 549	10.1 Acres
	HERF	NONE
	HERP	NONE
	HERO	55.0 ACRES
	AICUZ	3,240
	Airfield Safety Criteria	1,389
	Other	

NOTE: (1) Restrictive easements for clear zones.

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

8c. How many acres on your base (includes off base sites) are dedicated for training purposes (e.g., vehicular, earth moving, mobilization)? This does not include buildings or interior small arms ranges used for training purposes.

Jump Circle	**288 acres**
Pistol Range	**277 acres**

8d. What is the date of your last AICUZ update? **16 APRIL 1990** Are any waivers of airfield safety criteria in effect on your base? **YES** Summarize the conditions of the waivers below.

L-1 is for location of Shop Buildings

NATF(SI)L-2 permits the existing diversion taxiway around the north side of structures No. 361 and No. 405 to remain.

NATF(SI)L-3 permits construction of two lead-off taxiway connections to a parallel taxiway on the north side of runway 30, one to the existing diversion taxiway and one up about 800 feet from the end of runway 30; provided the centerline of the parallel taxiway is located 500 feet north of the runway 12/30.

LK-4 allows the Ground Control Approach (GCA) radar to be located 440 feet left of centerline of runway 6/24, and 250 feet right of centerline of runway 15/33.

LAK-1 permits the location of the Control Tower on the northwest end of Building 307 at 1,063 feet northwest of runway 15/33 and 1280 feet southeast of runway 6/24. Permits the tower to extend above the 7:1 transitional surface by 38 feet.

L-7 permits an AN/GMQ-29B to be located 620 feet south of runway 6/24 centerline and 2,850 feet inboard of the threshold end of runway 24.

L-8 permits an 840 foot long, 60 foot wide taxiway to connect taxiway #5, 3,300 feet long and 60 feet wide, to runway 33. This waiver is contingent upon the 60 foot wide taxiway being used for daylight operations and being restricted to small-type aircraft such as the U-21, C-12, OV-1, RC-10, T-41, and T-42.

L-10 permits a taxiway with a centerline 100 feet from the closest part of building #355; the applicable requirements of NAVFAC P-80.3 are waived provided all aircraft with wingspan greater than 95 feet are accompanied by wing walkers and that no aircraft with a wingspan greater than 140 feet taxies on the taxiway. Aircraft with wingspan greater than 140 feet shall be towed.

8e. List the off-base land use *types* (e.g, residential, industrial, agricultural) and *acreage* within Noise Zones 2 & 3 generated by your flight operations and whether it is compatible/incompatible with AICUZ guidelines on land use.

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
298 Acres/Runway 15	Zone 2	State Wildlife Management Area	Compatible
69 Acres/Runway 33	Zone 2	Agriculture/ Vacant	Compatible
57 Acres/Runway 06 & 30	Zone 2	Agriculture/ Vacant	Compatible
5 Acres/West of the west boundary of station	Zone 2	Fort Dix	Compatible
3 Acres/Runway 24	Zone 2	Residential	Incompatible
24 Acres/Runway 24	Zone 2	Agriculture/ Vacant	Compatible

8f. List the navigational channels and berthing areas controlled by your base which require maintenance dredging? Include the frequency, volume, current project depth, and costs of the maintenance requirement.

NONE

Navigational Channels/ Berthing Areas	Location/ Description	Maintenance Dredging Requirement			
		Frequency	Volume (MCY)	Current Project Depth (FT)	Cost ($M)

8g. Summarize planned projects through FY 1997 requiring **new channel or berthing area** dredged depths, include location, volume and depth.

N/A

8h. N/A

Are there available **designated dredge disposal areas** for maintenance dredging material? List location, remaining capacity, and future limitations.	**N/A**
Are there available **designated dredge disposal areas** for new dredge material? List location, remaining capacity, and future limitations.	**N/A**
Are the dredged materials considered contaminated? List known contaminants.	**N/A**

8i. List any requirements or constraints resulting from consistency with **State Coastal Zone Management Plans.**

NONE

8j. Describe any **non-point source pollution problems affecting water quality** ,e.g.: coastal erosion.

None. NAWCAD Lakehurst has an approved stormwater management plan and has submitted an application to the State of New Jersey for a non-point source discharge permit.

8k.

If the base has a cooperative agreement with the US Fish and Wildlife Service and/or the State Fish and Game Department for conducting a hunting and fishing program, does the agreement or these resources constrain either current or future operations or activities? Explain the nature and extent of restrictions.	**NO**

8l. List any other areas on your base which are indicated as protected or preserved habitat other than threatened/endangered species that have been listed in Section 1. List the species, whether or not treated, and the acres protected/preserved.

NONE

9. WRAPUP

9a. Are there **existing or potential environmental showstoppers** that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions?

NO

9b. Are there any **other environmental permits** required for base

operations, include any relating to industrial operations.

NO

9c. Describe any **other environmental or encroachment restrictions** on base property not covered in the previous 8 sections.

N/A

9d. List **any future/proposed laws/regulations or any proposed laws/regulations** which will constrain base operations or development plans in any way. Explain.

NONE

NAVAL AIR WARFARE CENTER
AIRCRAFT DIVISION
LAKEHURST

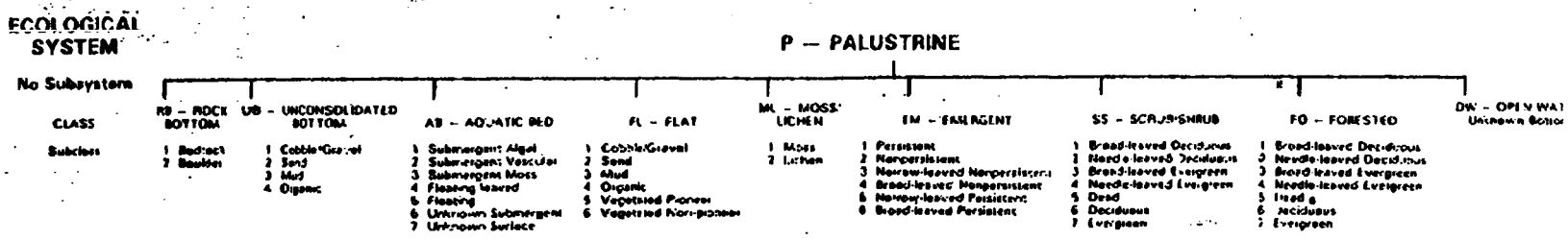
ENVIRONMENTAL DATA CALL 33

WETLANDS MAPS

(Refer to Question 2b)

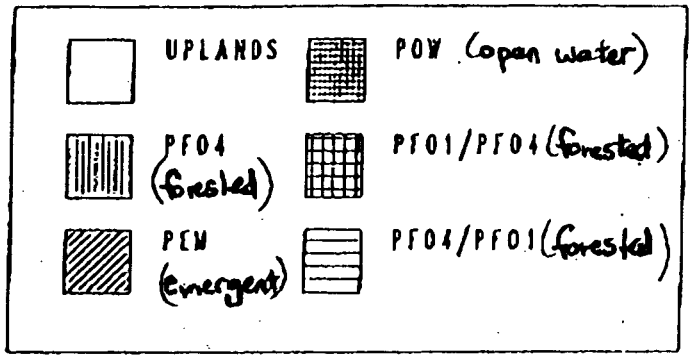
ATTACHMENT 1

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION



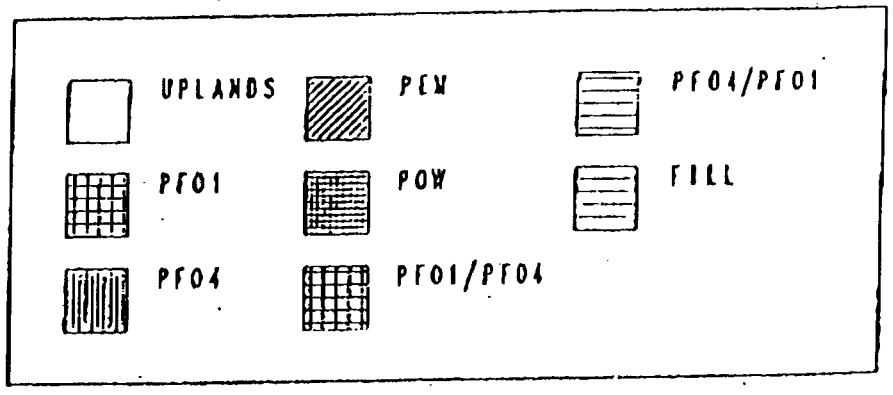
LAKEHURST SW-LAKEHURST

Wetland key



SE-Lakehurst

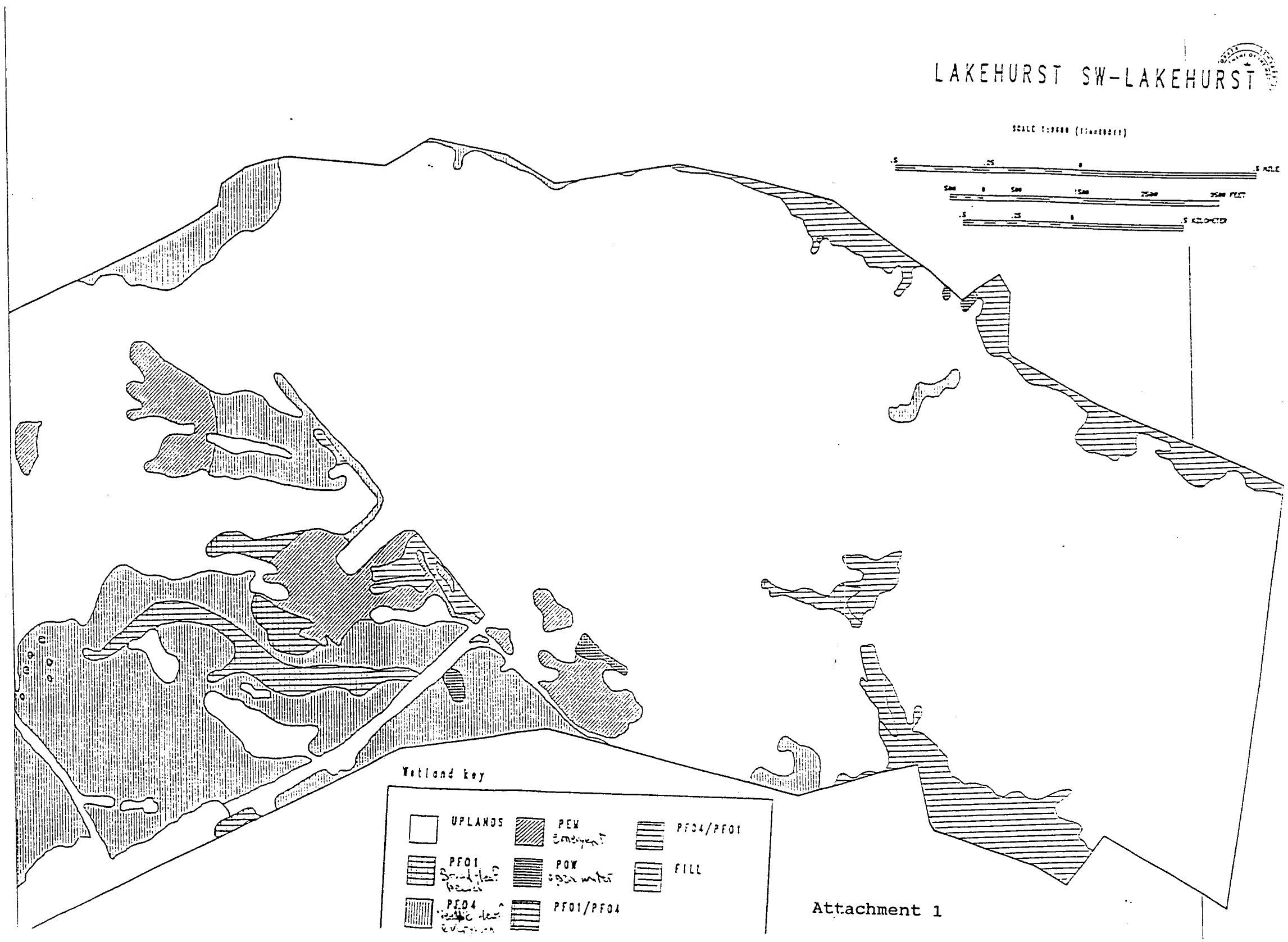
Wetland key



N68335

DATA CALL 33 Attachment 1 legends

CASSVILLE SE-LAKEHURST
Wetland key
UPLANDS
POW (open water)
PFO4 (forested)
PFO1/PFO4 (forested)
PEM (emergent)
PFO4/PFO1 (forested)



Attachment 1

Document Separator

NAVAL AIR WARFARE CENTER
AIRCRAFT DIVISION
LAKEHURST

ENVIRONMENTAL DATA CALL 33

AIR EMISSION SOURCES AND CALCULATIONS

(Refer to Question 5c.)

ATTACHMENT 2

05/04/94

APP #	NJ STACK	EXP. DATE	CERT #	EQUIPMENT	BUILDING	POC	COMMENTS
	5		42933	PANGBORN DUST COLLECTOR	124	RITZMAN	NJDEPE LETTER 1/20/94
	10	8/18/90	46811	DUST COLLECTOR VENT BRAKE ROOM	88	TILTON	NJDEPE APPROVAL 3/28/94
	61	5/14/94	112671	LEAD POTS STACK #1	124	RITZMAN	AWAITING TESTING
	4	5/17/94	111508	ELECTRIC ARC SPRAY GUN	148	RITZMAN	
	69	6/3/94	104100	SUPERHEATER BOILER #2 PP #2	362	LANUTO	NULL STATUS
	68	6/3/94	104099	BOILER #2 PP#2	362	LANUTO	NEED CEMS & STACK TEST
1931308	73	7/08/94	112127	TANK PW #75 PP#1	15	RHYNER	
893070	62	7/20/94	91213	EMERGENCY ONAN DIESEL GENERATOR	551		
	7	7/21/94	42935	GRINDING MACHINE	148	RITZMAN	
914902A	70	7/22/94	111509	NPL-2 AIR DISCHARGE		FIGURA	PERMIT EQUIVALENCY
920371A	71	7/22/94	111510	NPL-3		FIGURA	PERMIT EQUIVALENCY
	74	7/22/94	115662	NPL-4 AREA A/B		FIGURA	PERMIT EQUIVALENCY
	67	8/7/94	103975	NPL-1 AREA C	NPL-1	FIGURA	PERMIT EQUIVALENCY
	1	12/7/94	40526	YORK SHIPLEY BOILER MODEL 564	307		
	2	12/7/94	40527	BOILER #6 CLEAVER-BROOKS PP#2	362	LANUTO	
	3	12/7/94	40528	BOILER #7 CLEAVER-BROOKS PP#2	362	LANUTO	
895017A	64	12/15/94	95799	BOILER (MECHANICAL ROOM)	596		
	9	5/12/95	45277	DUST COLLECTOR CARPENTRY SHOP	271	SUPPLY	
891669	63	9/1/95	91958	WELDING VENTILATION SYSTEM #3	148	RITZMAN	
890754A	8	9/5/95	90120	PAINT SPRAY BOOTH	194	HALL	MOVED FROM 198
890751A	53	9/5/95	91169	LARGE ITEM WELDING AREA STACK #2	148	RITZMAN	
890747A	55	9/5/95	89939	ELOX CUTTING MACHINE STACK #7	148	RITZMAN	
890755A	60	9/5/95	90385	WELDING AREA STACK #1	272		
881500	50	10/13/95	89506	PAINT BOOTH	88	TILTON	NOT SET UP
881498	51	10/13/95	89396	PAINT BOOTH #1	149	RITZMAN	
881499A	52	10/13/95	89397	PAINT BOOTH #2	149	RITZMAN	
971118A	36	11/6/95	78577	PAINT SPRAY BOOTH VENT	355		NOT SET UP
850865	34	9/20/96	71892	PAINT SPRAY BOOTH VENT DARISSA	194	DOWLING	
903277A	66	5/13/97	96959	WOOD SHOP DUST COLLECTOR	191	FREEMAN	
890745A	57	6/4/97	97807	DUST COLLECTOR STACK #3	148	RITZMAN	
890756	56	6/23/97	89940	PP #2 STACK #1 ONAN DIESEL	362	LANUTO	
1931306	72	3/30/97	112126	TANK PW #60 WESTFIELD	368	RHYNER	
881505A	39	4/18/98	83263	TANK #S10 20,000G MOGAS	367	MUTTIE	
881508A	40	4/19/98	83264	TANK #S13 20,000G DIESEL	367	MUTTIE	
881504A	43	5/12/98	84819	TANK #S8 50,000G JP-5	196	MUTTIE	
881501A	41	5/12/98	84817	TANK #S6 50,000G JP-5	196	MUTTIE	
	48	11/07/98	87395	EMCO WHEATON	424	MUTTIE	
833738A	15	1/30/99	67150	DUST COLLECTOR VENT	123	WALTERS	NEW GYM X.2175 CDR.MCCAFFERT
	6	7/21/99	42934	METAL CUT AREA	148	RITZMAN	

1

05/04/94

APP #	NJ STACK	EXP. DATE	CERT #	EQUIPMENT	BUILDING	POC	COMMENTS
				CANCELED PERMITS			
902112A	65	7/24/93	96706	VAPOR DEGREASER	148	RITZMAN	NULL STATUS/CANCEL
890753	59	4/11/94	90384	CHAPEL STACK #1	264		420,000 BTU/HR
890746A	54	9/5/95	89938	ELOX CUTTING MACHINE STACK #5	148	RITZMAN	CANCEL
890748A	58	9/5/95	90383	ELOX CUTTING MACHINE STACK #6	148	RITZMAN	CANCEL
881502A	42	5/12/98	84818	TANK #S7 50,000G JP-5	196	MUTTIE	ABANDONED
881503A	44	5/12/98	84974	TANK #S9 50,000G	196	MUTTIE	ABANDONED
881506A	45	5/12/98	84820	TANK #S11 20,000G AVGAS	367	MUTTIE	ABANDONED
881507A	46	5/12/98	84821	TANK #S12 20,000G JP-5	367	MUTTIE	ABANDONED
871119A	35	4/29/92	78141	WELDING FUME EXHAUST	355		NOT SET UP

EMISSIONS CALCULATIONS FOR
PERMITTED BOILERS

NJ Stack #64 - Boiler Bldg.596 - Natural Gas

Amount burned 1993 - 7.51 MMCF

Particulate - 4.5 lb/MMCF = 33.8 lb/yr = 0.0169 TPY
NOx - 100 lb/MMCF = 751 lb/yr = 0.3755 TPY
CO - 21 lb/MMCF = 157.71 lb/yr = 0.0789 TPY
VOC - 5.8 lb/MMCF = 43.558 lb/yr = 0.022 TPY

NJ Stack #68 - Boiler #2 Power Plant #2 - #6 Fuel Oil

Amount burned 1993 - 354.21 MGALS

Particulate - 6 lb/MGAL = 2125.26 lb/yr = 1.06 TPY
NOx - 55 lb/MGAL = 19481.55 lb/yr = 9.74 TPY
CO - 5 lb/MGAL = 1771.05 lb/yr = 0.886 TPY
VOC nonmethane = 0.28 lb/MGAL = 99.2 lb/yr = 0.0496 TPY
VOC methane - 1.0 lb/MGAL = 354.21 lb/yr = 0.177 TPY
VOC - 0.227 TPY

NJ Stack #1 - Boiler Bldg.307 - #2 Fuel Oil

Amount burned 1993 - 60.9 MGALS

Particulate - 2 lb/MGAL = 121.8 lb/yr = 0.061 TPY
NOx - 20 lb/MGAL = 1218 lb/yr = 0.609 TPY
CO - 5 lb/MGAL = 304.5 lb/yr = 0.152 TPY
VOC nonmethane - 0.34 lb/MGAL =20.71 lb/yr = 0.01 TPY
VOC methane - 0.216 lb/MGAL = 13.15 lb/yr = 0.0066 TPY
VOC - 0.0166 TPY

NJ Stack #2 - Power Plant #2 Boiler #6 - #6 Fuel Oil

Amount burned 1993 - 38.44 MGALS

Particulate - 6 lb/MGAL = 230.64 lb/yr = 0.115 TPY
NOx - 55 lb/MGAL = 2114.2 lb/yr = 1.06 TPY
CO - 5 lb/MGAL = 192.2 lb/yr = 0.0961 TPY
VOC nonmethane - 1.13 lb/MGAL = 43.44 lb/yr = 0.022 TPY
VOC mtehane - 0.475 lb/MGAL = 18.26 lb/yr = 0.009 TPY
VOC - 0.0311 TPY

NJ Stack #3 - Power Plant #2 Boiler #7 - #6 Fuel Oil

Amount burned 1993 - 210.63 MGALS

Particulate - 6 lb/MGAL = 1263.78 lb/yr = 0.632 TPY
NOx - 55 lb/MGAL = 11584.65 lb/yr =5.79 TPY
CO - 5 lb/MGAL = 1053.15 lb/yr = 0.527 TPY
VOC nonmethane - 1.13 lb/MGAL = 238.0 lb/yr = 0.119 TPY
VOC methane - 0.475 lb/MGAL = 100 lb/yr = 0.05 TPY
VOC - 0.169 TPY

NJ Stack #62 - Generator Bldg.551 - Diesel

MMBTU/hr = 1.6
Hours 1993 = 0.5

Particulate - 0.0496 lb/MMBTU = 0.0794 lb/hr = 0.0397 lb/yr = 1.98E-5 TPY
NOx - 3.1 lb/MMBTU = 4.96 lb/hr = 2.48 lb/yr = 1.24E-3 TPY
CO - 0.81 lb/MMBTU = 1.296 lb/hr = 0.648 lb/yr = 3.24E-4 TPY
VOC - 0.09 lb/MMBTU = 0.144 lb/hr = 0.072 lb/yr = 3.6E-5 TPY

TOTALS FOR FUEL COMBUSTION SOURCES

Particulate - 1.885 TPY
NOx - 17.58 TPY
CO - 1.74 TPY
VOC - 0.466 TPY

SURFACE COATING OPERATIONS

VOC - 2.69 TPY

OTHER PROCESSES

Particulate - 0.884 TPY
NOx - 9.0E-3
CO - 1.8E-3
VOC - 0.0203 TPY

VOC FROM TANKS

VOC - 0.3813

1993 EMISSION ESTIMATES FOR PERSONAL AUTOMOBILES

ASSUMPTIONS:
2500 employees
Average vehicle occupancy 1.4
Therefore, approximately 1785 personal autos are driven on the Station each day.
Average vehicle miles traveled 3/auto
Model year distribution:
Pre 1980 - 5%
1980-1985 -20%
1985-1990 -35%
1990-1993 -40%

AP-42 Emission Levels (averages based on estimated mileage)

CALCULATIONS:
Hydrocarbons - VOC estimate

1972-1974 - 44 cars
Emission level (g/mi) - 5.554
5.554 x 3mi x 44 = 733.13 g/day
733.13 g/day x 260 days/yr = 190613.8 g/yr
190613.8 g/yr x 0.002205 = 420.3 lb/yr

1974-1979 - 45 cars
Emission level (g/mi) - 4.14
4.14 x 3 mi x 45 = 558.9 g/day
558.9 g/day x 260 days/yr = 145314 g/yr
145314 g/yr x 0.002205 = 320.4 lb/yr

1980 - 58 cars
Emission level (g/mi) - 1.885
1.885 x 3 mi x 58 = 327.99 g/day
327.99 g/day x 260 days = 85277.4 g/yr
85277.4 g/yr x 0.002205 = 188 lb/yr

1981 - 58 cars
Emission level (g/mi) - 1.218
1.218 x 3 mi x 58 = 211.9 g/day
211.9 g/day x 260 days = 55094 g/yr
55094 g/yr x 0.002205 = 121.48 lb/yr

1982 - 58 cars
Emission level (g/mi) - 1.167
1.167 x 3 mi x 58 = 203.1 g/day
203.1 g/day x 260 = 52806 g/yr
52806 g/yr x 0.002205 = 116.4 lb/yr

1983 - 61 cars
Emission level (g/mi) - 1.008
1.008 x 3 mi x 61 = 184.5 g/day
184.5 g/day x 260 = 47970 g/yr
47970 g/yr x 0.002205 = 105.8 lb/yr

1984 - 61 cars
Emission level (g/mi) - 1.011
1.011 x 3 mi x 61 = 185 g/day

185 g/day x 260 = 48100 g/yr
48100 g/yr x 0.002205 = 106.1 lb/yr
1985 - 61 cars
Emission level (g/mi) - 0.993
0.993 x 3 x 61 = 181.7 g/day
181.7 g/day x 260 = 47242 g/yr
47242 g/yr x 0.002205 = 104.2 lb/yr
1986 - 1990 - 625 cars
Emission level (g/mi) - 0.668
0.668 x 3 mi x 625 = 1252.5 g/day
1252.5 g/day x 260 = 325650 g/yr
325650 g/yr x 0.002205 = 718.1 lb/day
1991 - 178
Emission level (g/mi) - 0.462
0.462 x 3 mi x 178 = 246.7 g/day
246.7 g/day x 260 = 64142 g/yr
64142 x 0.002205 = 141.4 lb/yr
1992-1993 - 536 cars
Emission level (g/mi) - 0.347
0.347 x 3 mi x 536 = 558 g/day
558 g/day x 260 = 145080 g/yr
145080 g/yr x 0.002205 = 320 lb/yr

TOTAL HC EMISSION - 2662.18 lb/yr
1.33 TPY

CO Emissions

1972-1974 - 44 cars
Emission level (g/mi) - 73.028
73.028 x 3mi x 44 = 9639.7 g/day
9639.7 g/day x 260 days/yr = 2506322 g/yr
2506322 g/yr x 0.002205 = 5526.44 lb/yr
1974-1979 - 45 cars
Emission level (g/mi) - 56.599
56.599 x 3 mi x 45 = 7640.87 g/day
7640.87 g/day x 260 days/yr = 1986626.2 g/yr
1986626.2 g/yr x 0.002205 = 4380.5 lb/yr
1980 - 58 cars
Emission level (g/mi) - 24.011
24.011 x 3 mi x 58 = 4177.9 g/day
4177.9 g/day x 260 days = 1086254 g/yr
1086254 g/yr x 0.002205 = 2395.19 lb/yr
1981 - 58 cars
Emission level (g/mi) - 22.708
22.708 x 3 mi x 58 = 3951.2 g/day
3951.2 g/day x 260 days = 1027312 g/yr
1027312 g/yr x 0.002205 = 2265.2 lb/yr
1982 - 58 cars
Emission level (g/mi) - 21.398
21.398 x 3 mi x 58 = 3723.25 g/day
3723.25 g/day x 260 = 968045.5 g/yr
968045.5 g/yr x 0.002205 = 2134.54 lb/yr

1983 - 61 cars
Emission level (g/mi) - 15.708
15.708 x 3 mi x 61 = 2874.56 g/day
2874.56 g/day x 260 = 747385.6 g/yr
747385.6 g/yr x 0.002205 = 1648 lb/yr
1984 - 61 cars
Emission level (g/mi) - 11.546
11.546 x 3 mi x 61 = 2112.9 g/day
2112.9 g/day x 260 = 549354 g/yr
549354 g/yr x 0.002205 = 1211.3 lb/yr
1985 - 61 cars
Emission level (g/mi) - 11.445
11.445 x 3 x 61 = 2094.4 g/day
2094.4 g/day x 260 = 544544 g/yr
544544 g/yr x 0.002205 = 1200.7 lb/yr
1986 - 1990 - 625 cars
Emission level (g/mi) - 9.420
9.420 x 3 mi x 625 = 17662.5 g/day
17662.5 g/day x 260 = 4592250 g/yr
4592250 g/yr x 0.002205 = 10125.9 lb/yr
1991 - 178
Emission level (g/mi) - 7.307
7.307 x 3 mi x 178 = 3902 g/day
3902 g/day x 260 = 1014520 g/yr
1014520 x 0.002205 = 2237 lb/yr
1992-1993 - 536 cars
Emission level (g/mi) - 4.375
4.375 x 3 mi x 536 = 7035 g/day
7035 g/day x 260 = 1829100 g/yr
1829100 g/yr x 0.002205 = 3749.66 lb/yr

TOTAL CO EMISSIONS - 36874.43 lb/yr
18.44 TPY

NOx Emissions

1972-1974 - 44 cars
Emission level (g/mi) - 3.944
3.944 x 3mi x 44 = 520.61 g/day
520.61 g/day x 260 days/yr = 135358.6 g/yr
135358.6 g/yr x 0.002205 = 298.5 lb/yr
1974-1979 - 45 cars
Emission level (g/mi) - 3.621
3.621 x 3 mi x 45 = 488.84 g/day
488.84 g/day x 260 days/yr = 127098.4 g/yr
127098.4 g/yr x 0.002205 = 280.3 lb/yr
1980 - 58 cars
Emission level (g/mi) - 2.948
2.948 x 3 mi x 58 = 512.95 g/day
512.95 g/day x 260 days = 133367 g/yr
133367 g/yr x 0.002205 = 294.1 lb/yr
1981 - 58 cars
Emission level (g/mi) - 1.569
1.569 x 3 mi x 58 = 273 g/day

273 g/day x 260 days = 70980 g/yr
70980 g/yr x 0.002205 = 156.5 lb/yr

1982 - 58 cars
Emission level (g/mi) - 1.594
1.594 x 3 mi x 58 = 277.36 g/day
277.36 g/day x 260 = 72113.6 g/yr
72113.6 g/yr x 0.002205 = 159 lb/yr

1983 - 61 cars
Emission level (g/mi) - 1.278
1.278 x 3 mi x 61 = 233.87 g/day
233.87 g/day x 260 = 60806.2 g/yr
60806.2 g/yr x 0.002205 = 134.1 lb/yr

1984 - 61 cars
Emission level (g/mi) - 1.116
1.116 x 3 mi x 61 = 204.2 g/day
204.2 g/day x 260 = 53092 g/yr
53092 g/yr x 0.002205 = 117.1 lb/yr

1985 - 61 cars
Emission level (g/mi) - 1.104
1.104 x 3 x 61 = 202 g/day
202 g/day x 260 = 52520 g/yr
52520 g/yr x 0.002205 = 115.8 lb/yr

1986 - 1990 - 625 cars
Emission level (g/mi) - 1.013
1.013 x 3 mi x 625 = 1899.4 g/day
1899.4 g/day x 260 = 493844 g/yr
493844 g/yr x 0.002205 = 1089 lb/yr

1991 - 178
Emission level (g/mi) - 0.891
0.891 x 3 mi x 178 = 475.8 g/day
475.8 g/day x 260 = 123708 g/yr
123708 x 0.002205 = 272.8 lb/yr

1992-1993 - 536 cars
Emission level (g/mi) - 0.750
0.750 x 3 mi x 536 = 1206 g/day
1206 g/day x 260 = 313560 g/yr
313560 g/yr x 0.002205 = 691.4 lb/yr

TOTAL NOx EMISSIONS - 3608.6 lb/yr
1.8 TPY

1991 PERSONAL AUTOMOBILES -
3300 Employees - 32% more employees, therefore emissions 32 % higher

1993 EMISSION CALCULATIONS FOR OTHER MOBILE SOURCES

Approximately 270 other mobile sources (cars, trucks, equipment)
150 trucks - 50% gasoline
50% diesel
75 cars
45 other - classified as gasoline vehicles
Approximately travel 5 miles per day

Vehicles:
1988 - 10 vehicles
1989 - 10 vehicles
1990 - 15 vehicles
1991 - 30 vehicles
1992 - 30 vehicles
1993 - 25 vehicles

HC EMISSIONS

1988 - 10 vehicles
Emission level (g/mi) - 0.456
0.456 x 5 x 10 = 22.8 g/day
22.8 g/day x 260 = 5928 g/yr
5928 g/yr x 0.002205 = 13.1 lb/yr
1989 - 10 vehicles
Emission level (g/mi) - 0.460
0.460 x 5 mi x 10 = 23 g/day
23 g/day x 260 = 5980 g/yr
5980 g/yr x 0.002205 = 13.2 lb/yr
1990 - 15 vehicles
Emission level (g/mi) - 0.460
0.460 x 5 mi x 15 = 34.5 g/day
34.5 g/day x 260 = 8970 g/yr
8970 g/yr x 0.002205 = 19.78 lb/yr
1991 - 30 vehicles
Emission level (g/mi) - 0.461
0.461 x 5 mi x 30 = 69.2 g/day
69.2 g/day x 260 = 17992 g/yr
17992 g/yr x 0.002205 = 39.7 lb/yr
1992 - 30 vehicles
Emission level (g/mi) - 0.289
0.289 x 5 mi x 30 = 43.35 g/day
43.35 g/day x 260 = 11271 g/yr
11271 g/yr x 0.002205 = 24.9 lb/yr
1993 - 25 vehicles
Emission level (g/mi) - 0.289
0.289 x 5 mi x 25 = 36.125 g/day
36.125 g/day x 260 = 9392.5 g/yr
9392.5 g/yr x 0.002205 = 20.7 lb/yr

HC TOTAL EMISSIONS - 131.38 lb/yr
VEHICLES 0.066 TPY

Trucks - 75 Gasoline
1988 - 5
1989 - 5
1990 - 10
1991 - 15
1992 - 20
1993 - 20

HC EMISSION

1988 - 1991 - 35 Trucks
Emission level (g/mi) - 0.719
0.719 x 5 mi x 35 = 125.8 g/day
125.8 g/day x 260 = 32708 g/yr
32708 g/yr x 0.002205 = 72.1 lb/yr
1992 - 1993 - 40 Trucks
Emission level (g/mi) - 0.408
0.408 g/mi x 5 mi x 40 = 81.6 g/day
81.6 g/day x 260 = 21216 g/yr
21216 g/yr x 0.002205 = 46.8 lb/yr

HC EMISSION TOTAL - 118.9 LB/YR
TRUCKS GASOLINE 0.06 TPY

Trucks - 75 Diesel
1988 - 5
1989 - 5
1990 - 10
1991 - 15
1992 - 20
1993 - 20

1988 - 1989 - 10 TRUCKS
Emission level (g/mi) - 0.7
0.7 g/mi x 5 mi x 10 = 35 g/day
35 g/day x 260 = 9100 g/yr
9100 g/yr x 0.002205 = 20.1 lb/yr
1990 - 1992 - 45 Trucks
Emission level (g/mi) - 0.6
0.6 g/mi x 5 mi x 45 = 135 g/day
135 g/day x 260 = 35100 g/yr
35100 g/yr x 0.002205 = 77.4 lb/yr
1993 - 20 Trucks
Emission level(g/mi) - 0.4
0.4 g/mi x 5 mi x 20 = 40 g/day
40 g/day x 260 = 10400 g/yr
10400 g/yr x 0.002205 = 23 lb/yr

HC EMISSION TOTAL - 120.5 LB/YR
TRUCKS DIESEL 0.06 TPY

HC OTHER MOBILE - 0.186 TPY

CO EMISSION VEHICLES

1988 - 10 vehicles
Emission level (g/mi) - 4.97
4.97 g/mi x 5 mi x 10 = 248.5 g/day
248.5 g/day x 260 = 64610 g/yr
64610 g/yr x 0.002205 = 142.5 lb/yr
1989 - 10 vehicles
Emission level (g/mi) - 4.99
4.99 g/mi x 5 mi x 10 = 249.5 g/day
249.5 g/day x 260 = 64870 g/yr
64870 g/yr x 0.002205 = 143 lb/yr
1990 - 15 vehicles
Emission level (g/mi) - 5.00
5.00 g/mi x 5 mi x 15 = 375 g/day
375 g/day x 260 = 97500 g/yr
97500 g/yr x 0.002205 = 215 lb/yr
1991 - 30 vehicles
Emission level (g/mi) - 2.919
2.919 x 5 mi x 30 = 437.9 g/day
437.9 g/day x 260 = 113854 g/yr
113854 g/yr x 0.002205 = 251 lb/yr
1992 -1993 - 55 vehicles
Emission level (g/mi) - 2.964
2.964 g/mi x 5 mi x 55 = 815.1 g/day
815.1 g/day x 260 = 211926
211926 g/yr x 0.002205 = 467.3 lb/yr
CO TOTAL EMISSION - 1218.8 lb/yr
VEHICLES 0.61 TPY

Trucks - 75 Gasoline

1988 - 1989 - 10 Trucks
Emission level (g/mi) - 8.262
8.262 g/mi x 5 mi x 10 = 413.1 g/day
413.1 g/day x 260 = 107406 g/yr
107406 g/yr x 0.002205 = 236.8 lb/yr
1990 - 1991 - 25 Trucks
Emission level (g/mi) - 8.162
8.162 g/mi x 5 mi x 25 = 1020.25 g/day
1020.25 g/day x 260 = 265265 g/yr
265265 g/yr x 0.002205 = 585 lb/yr
1992 - 1993 - 40 Trucks
Emission level (g/mi) - 5.311
5.311 g/mi x 5 mi x 40 = 1062.2
1062.2 g/day x 260 = 276172 g/yr
276172 g/yr x 0.002205 = 609 lb/yr
CO TOTAL EMISSION - 1430.8 lb/yr
TRUCKS GASOLINE 0.72 TPY

Trucks - 75 Diesel
1988 - 1989 - 10 Trucks
Emission level (g/mi) - 1.6
1.6 g/mi x 5 mi x 10 = 80 g/day

80 g/day x 260 = 20800 g/yr
20800 g/yr x 0.002205 = 45.9 lb/yr
1990 - 1991 - 25 Trucks
Emission level (g/mi) - 1.5
1.5 g/mi x 5 mi x 25 = 187.5 g/day
187.5 g/day x 260 = 48750 g/yr
48750 g/yr x 0.002205 = 107.5 lb/yr
1992 - 1993 - 40 Trucks
Emission level (g/mi) - 1.3
1.3 g/mi x 5 mi x 40 = 260
260 g/day x 260 = 67600 g/yr
67600 g/yr x 0.002205 = 149 lb/yr
CO TOTAL EMISSION - 302.4 LB/YR
TRUCKS DIESEL 0.15 TPY

CO EMISSIONS OTHER MOBILE SOURCES - 1.48 TPY

NOx EMISSIONS

VEHICLES
1988 - 1990 - 35 Vehicles
Emission level (g/mi) - 0.761
0.761 g/mi x 5 mi x 35 = 133 g/day
133 g/day x 260 = 34580 g/yr
34580 g/yr x 0.002205 = 76.2 lb/yr
1991 - 30 vehicles
Emission level (g/mi) - 0.756
0.756 g/mi x 5 mi x 30 = 113.4 g/day
113.4 g/day x 260 = 29484 g/yr
29484 g/yr x 0.002205 = 65 lb/yr
1992 - 1993 - 55 vehicles
Emission level (g/mi) - 0.638
0.638 g/mi x 5 mi x 55 = 175.45 g/day
175.45 g/day x 260 = 45617 g/yr
45617 g/yr x 0.002205 = 100.6 lb/yr
NOx TOTAL EMISSION - 241.8 lb/yr
VEHICLES 0.121 TPY

TRUCKS - 75 Gasoline
1988 - 1991 - 35 Trucks
Emission level (g/mi) - 1.023
1.023 g/mi x 5 mi x 35 = 179 g/day
179 g/day x 260 = 46540 g/yr
46540 g/yr x 0.002205 = 102.6 lb/yr
1992 - 1993 - 40 Trucks
Emission level (g/mi) - 0.796
0.796 g/mi x 5 mi x 40 = 159.2 g/day
159.2 g/day x 260 = 41392 g/yr
41392 g/yr x 0.002205 = 91.3 lb/yr
NOx TOTAL EMISSION - 193.9 lb/yr
TRUCK GASOLINE 0.097 TPY

TRUCKS - 75 Diesel
1988 - 5 Trucks
Emission level (g/mi) - 1.3
1.3 g/mi x 5 mi x 5 = 32.5 g/day
32.5 g/day x 260 = 8450 g/yr
8450 g/yr x 0.002205 = 18.6 lb/yr
1989 - 1990 - 15 Trucks
Emission level (g/mi) - 1.2
1.2 g/mi x 5 mi x 15 = 90 g/day
90 g/day x 260 = 23400 g/yr
23400 g/yr x 0.002205 = 51.6 lb/day
1991 - 1992 - 35 Trucks
Emission level (g/mi) - 1.1
1.1 g/mi x 5 mi x 35 = 192.5 g/day
192.5 g/day x 260 = 50050 g/yr
50050 g/yr x 0.002205 = 110.4 lb/yr
1993 - 20 Trucks
Emission level (g/mi) - 1.0
1.0 g/mi x 5 mi x 20 = 100 g/day
100 g/ day x 260 = 26000 g/yr
26000 g/yr x 0.002205 = 57.33 lb/yr
NOx TOTAL EMISSION - 237.9 lb/yr
TRUCK DIESEL 0.119 TPY

NOx TOTAL EMISSION OTHER MOBILE - 0.337 TPY

1991 EMISSIONS 32% higher

AIRCRAFT EMISSION

Emission Factors - AP-42
CO (lb/hr) - 15.7
NO (lb/hr) - 123.4
Total HC (lb/hr) - 0.7
Particulates (lb/hr) - 61.7

Based on the number of LTOs and TGOs it is estimated that 790 hours of aircraft traffic occurred during 1990.

CO emission = 12403 lb/yr = 6.2 TPY
NO emission = 97486 lb/yr = 48.7 TPY
HC emission = 553 lb/yr = 0.277 TPY
Particulate = 48743 lb/yr = 24.4 TPY

Based on the number of LTOs and TGOs it is estimated that 665 hours of aircraft traffic occurred during 1993.

CO emission = 10440.5 lb/yr = 5.22 TPY
NO emission = 82061 lb/yr = 41.0 TPY
HC emission = 465.5 lb/yr = 0.23 TPY
Particulate = 41030.5 lb/yr = 20.5 TPY

Emission factors for Fuel Storage - 1993

Tank Loss = Breathing Loss + Working Loss

Above Ground Tanks:
Breathing Loss (Lb)=(.0226 Mv ((P/(PA-P))^.68)(D^1.73)(H^.51)(T^.50) (FpCKc))/2000
where:
Lb= breating loss (tons/Yr)
Mv= molecular wiegth of vapor in tank (lb/lbmole)
P = true vapor pressure at bulk liquid conditions at 70 F (psia)
PA = average atmospheric pressure at tank location (psia)= 14.7 psia
D= tank diameter (feet)
H = average vapor space height, assume tank height/2 (feet)
T = average ambient diurnal temperature change (F)=16.6 F (based on NOAA LCD for Newark, N.J. airport)
C= adjustment factor for small diameter Tanks
Kc= product factor=1.0 for all organic liquids with the exception of crude oil

For USTs:
Breathing Loss Lb for UST storing MOGAS= 1.002E-3 Th/2000
This figure is based on an average breating emission rate of 120 mg/l of throughput mogas
where: LB= Breathing Loss (tons/Yr)
Th= Throughput (gal/Yr)
Breathing Loss(Lb) for UST storing material other than MOGASA = (P of Stored material/Pmogas)(1.002E-3)Th
where: P = true vapor pressure at bulk liquid conditions at 70 F (PSIA)

For all Tanks (unless vapor recovery):
Working Loss (Lw)=((2.40E-5) Mv P V N Kn Kc)/2000

where: Lw = Working Loss (tons/year)
Mv = molecular weight of vapor in tank (lb/lbmole)
P = true vapor pressure at bulk liquidconditions at 70 f (psia)
V = tank capacity (gallons)
N = number of tank turnovers= throughput/tank capacity
Kn = turnover factor = 1.0 for 36 turnovers per year or less
Kc = Product Factore = 1.0 for all organic liquids with the exception of crude oil

If tank is equipped with stage II vapor recovery:
Control efficiencies range from 88 to 92 percent
Assume efficiency of 90 percent
Multiply above working loss by (1-.90)

At NAES only mogas tanks at Building 424 have vapor recovery

Tank ID	Contents	Type	MV	P (psia)	D Ft	C	H Ft	Color	Fp	V gal	Th gal/yr	N	Kn	Lb tons/yr	Lw tons/yr	Lt tons/yr
PW 60	No 2 Fuel Oil	AST	130	0.009	6.5	0.55	20	White	1	20000	263450	13.1725	1	0.0025269341	0.0036988	0.0062258
PW 75	No 6 Fuel Oil	AST	190	6E-05	30	1	29	l/green	1.33	150000	657650	4.384	1	0.0050390509	8.996E-05	0.005129
S 06	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A	N/A	50000	249898	4.99796	1	0.0002221271	0.0042882	0.0045104
S 08	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A	N/A	50000	220374	4.40748	1	0.0001958841	0.0037816	0.0039775
S 10	MOGAS	UST	66	6.2	N/A	N/A	N/A	N/A	N/A	20000	64143	3.2	1	0.032135643	0.3142656	0.3464012
S 13	Diesel	UST	80	0.484	N/A	N/A	N/A	N/A	N/A	20000	29933	1.4967	1	0.0011706893	0.0139085	0.0150792
																0.3813231

91

Table 2-6

Summary of VOC Emissions by Source Category

Source Category	Actual Emissions		Potential Emissions
	(lb/hr)	(tpy)	(tpy)
Boilers/Furnaces	0.941	0.519	3.546
Paint Spray Booths	16.218	5.078	13.763
Brake Room	0.0	0.0	0.0
Carpentry/Wood Working	0.0	0.0	0.0
Metal Working	0.0	0.0	0.0
Diesel Generators	0.853	0.155	18.609
Lead Pots	0.004	6.5E-7	3.0E-3
Welding	0.0	0.0	0.0
Auto Exhaust	3.100	1.838	13.578
Air Stripper	9.4E-4	0.004	0.413
Cutting Machines	1.56	0.012	0.041
Degreaser	5.24	0.600	7.142
Tanks	0.069	0.384	29.771
Jet Sleds/NAPC Engine Testing*	0.0	0.042	0.042
Electric Arc Spray Gun	0.0	0.0	0.0
Grit Blasters	0.0	0.0	0.0
Other	80.0	16.768	16.768
Total	27.985	25.400	103.677

*Actual Emissions (lb/hr) were not calculated for composited sources.

Engineering Air Pollution Emission Study

Table 2-5

Summary of TSP/PM10 Emissions by Source Category

Source Category	Actual Emissions		Potential Emissions
	(lb/hr)	(tpy)	(tpy)
Boilers/Furnaces	21.488	9.912	74.552
Paint Spray Booths	0.019	0.003	0.008
Brake Room	6.3E-5	3.2E-5	3.8E-7
Carpentry/Wood Working	1.207	0.567	3.474
Metal Working	1.500	0.158	2.990
Diesel Generators	3.276	0.310	21.616
Lead Pots	0.035	5.9E-6	0.027
Welding	0.0	0.0	0.0
Auto Exhaust	0.0	0.0	0.0
Air Stripper	0.0	0.0	0.0
Cutting Machines	0.0	0.0	0.0
Degreaser	0.0	0.0	0.0
Tanks	0.0	0.0	0.0
Jet Sleds/NAPC Engine Testing*	0.0	3.683	3.683
Electric Arc Spray Gun	0.025	0.013	0.013
Grit Blasters	1.5	0.512	6.57
Other	0.0	0.0	0.0
Total	29.050	15.158	112.935

*Actual Emissions (lb/hr) were not calculated for composited sources.

Engineering Air Pollution Emission Study

Table 2-3

Summary of NO_x Emissions by Source Category

Source Category	Actual Emissions		Potential Emissions
	(lb/hr)	(tpy)	(tpy)
Boilers/Furnaces	148.342	68.774	516.486
Paint Spray Booths	0.0	0.0	0.0
Brake Room	0.0	0.0	0.0
Carpentry/Wood Working	0.0	0.0	0.0
Metal Working	0.0	0.0	0.0
Diesel Generators	32.764	3.384	264.732
Lead Pots	0.190	3.2E-5	0.148
Welding	0.0	0.0	0.0
Auto Exhaust	0.930	0.552	4.703
Air Stripper	0.0	0.0	0.0
Cutting Machines	0.0	0.0	0.0
Degreaser	0.0	0.0	0.0
Tanks	0.0	0.0	0.0
Jet Sleds/NAPC Engine Testing*	0.0	7.354	7.354
Electric Arc Spray Gun	0.0	0.0	0.0
Grit Blasters	0.0	0.0	0.0
Other	0.0	0.0	0.0
Total	182.226	80.065	792.794

*Actual Emissions (lb/hr) were not calculated for composited sources.

Engineering Air Pollution Emission Study

Table 2-1

Summary of CO Emissions by Source Category

Source Category	Actual Emissions		Potential Emissions
	(lb/hr)	(tpy)	(tpy)
Boilers/Furnaces	13.753	6.900	49.017
Paint Spray Booths	0.0	0.0	0.0
Brake Room	0.0	0.0	0.0
Carpentry/Wood Working	0.0	0.0	0.0
Metal Working	0.0	0.0	0.0
Diesel Generators	8.519	0.838	61.604
Lead Pots	0.047	8.0E-6	0.037
Welding	0.0	0.0	0.0
Auto Exhaust	48.98	29.033	214.562
Air Stripper	0.0	0.0	0.0
Cutting Machines	0.0	0.0	0.0
Degreaser	0.0	0.0	0.0
Tanks	0.0	0.0	0.0
Jet Sleds/NAPC Engine Testing*	0.0	0.937	0.937
Electric Arc Spray Gun	0.0	0.0	0.0
Grit Blasters	0.0	0.0	0.0
Other	0.0	0.0	0.0
Total	71.299	37.709	326.157

*Actual emissions (lb/hr) were not calculated for composited sources.

Engineering Air Pollution Emission Study

ELECTRIC ARC SPRAY GUN EMISSIONS

Building	Stack #	Actual Hours/Yr Used	Potential Hours/Yr Used**	Aluminum Emissions w/o Control (lb/hr)**	Control Device	Control Efficiency	Emissions w/Control (lb/hr)	Actual Emissions (tpy)	Potential Emissions (tpy)
148	1	1040 *	1040	2.5	Yes	0.99% **	0.025	0.013	0.013

* Actual operating hours provided by employees during site survey indicated that the unit was being used greater than 1040 hours/year (24 hours/week). This did not seem likely as the unit was not observed to be in use during during inspection of Building 148. Accordingly, actual hours used are assumed to be the permit maximum.

** Obtained from permit

Engineering Air Pollution Emission Study

ELOX CUTTING MACHINE EMISSIONS FOR MACHINES USING ELOX #13 CUTTING FLUID (MINERAL OIL)

Building	Stack #	Control Device	Actual Hours/Yr Used	Potential Hours/Yr Used*	Emissions of VOC (non-methane) (lb/hr)**	Actual VOC Emissions (tpy)	Potential VOC Emissions (tpy)
148	5	None	24	52	0.52	0.00624	0.01352
148	6	None	24	52 ***	0.52	0.00624	0.01352
148	7	****	****	52	0.52	****	0.01352

* Obtained from permit.
** Obtained from permit.
Vapor Pressure = 0.02 psi @ 70F
Vapor density = 8.84
20% saturation of vapor from liquid surface
1/100 diluton of vapor with air drawn into hood
Xag = 0.02/14.7 x 0.2 = 0.000272
Emissions = Xag x hood dilution factor x air flow x 60 min/hr x air density x vapor density
0.000272 x 0.01 x 480 cmf x 60 min/hr x 0.075 lb/cu.ft x 8.84 = 0.52 lb/hr
*** Permit application could not be located. Assume 52 based on potential allowable for Stacks #5 and #7.
**** Stack 7 and the third elox machine could not be located at time of site survey.

Engineering Air Pollution Emission Study

C. ..IA POLLUTANTS FOR GENERATORS AND ENGINES

Building #/Generator	Generator Type	Emissions Factors* CO (lb/gal)	VOC** (lb/gal)	VOC methane (lb/gal)	VOC non-methane (lb/gal)	NOx (lb/gal)	SOx (lb/gal)	P (lb/gal)	Fuel Usage (gal/hr)***	Emissions SOx (lbs/hr)	Emissions TSP (lbs/hr)	Actual Emissions CO (tpy)	Actual Emissions VOC (tpy)	Actual VOC methane (tpy)	Actual VOC non-methane (tpy)	Actual Emissions NOx (tpy)	Actual Emissions SOx (tpy)	Actual Emissions TSP (tpy)	Potential Hours/Yr Used $	Potential Emissions CO (tpy)
551 Onan 150 Kw @	Diesel	0.130		0.001	0.013	0.500	0.060	0.050	11.5	0.69	0.575	0.037		0.0003	0.0037	0.144	0.017	0.014	500	0.374
362 PP#2 Onan 150 Kw @	Diesel	0.130		0.001	0.013	0.500	0.060	0.050	11.5	0.69	0.575	0.037		0.0003	0.0037	0.144	0.017	0.014	52	0.039
15 PP#1 Fairbanks Morse 650 Kw @	Diesel	0.130		0.001	0.013	0.500	0.060	0.050	N/A	2.552	2.126	0.553		0.0043	0.0553	2.126	0.255	0.213	8760	24.215
Composite Small Generators 1265 Kw #+&	Diesel	0.102	0.04454			0.469	0.0312	0.0335	N/A	2.582	2.773	0.211	0.092			0.970	0.065	0.069	8760	36.976
TOTAL FOR ABOVE										6.514	6.049	0.839	0.092	0.005	0.063	3.384	0.354	0.311		61.604

* Emission factors were obtained from AP-42. Emission factors obtained for diesel industrial engines (Table 3.3-1) are indicated by a "#". Emission factors obtained for stationary large bore diesel engines (Table 3.4-1) are indicated by a "@".

** VOC = combined exhaust hydrocarbons (0.0375 lb/gal) and aldehydes (0.00704 lb/gal)

*** If the fuel usage rate was known, this was multiplied by the emissions factor to obtain the emissions. If the fuel usage rate was not known, then the emissions were determined using the equation provided in the workplan, as follows: [Power(Kw/hr) x 3412 Btu/Kw / Heating Value of Fuel(Btu/gal)]/Operating Efficiency x Emissions Factor

**** An operating efficiency of 37.25% was assumed.

$ Where available potential operating hours were obtained from permit. Otherwise, it was assumed at 8760 hours.

& The composite emission calculation is for 37 unpermitted generators at the Base. N.J.A.C. 7:27-8.2 requires that commercial fuel burning equipment with a heat input rate of 1,000,000 BTU per hour or greater to the burning chamber have a permit. There are three 100 Kw generators at the Base that are very close to the permit cutoff (915,973 BTU per hour).

\+ Assume that all small generators were used for 50 hours each in 1991 and that they all are diesel engines using no. 2 fuel oil. In determining the total power, power of individual generators was totaled. If power was unknown, it was assummed at 10 kW.

N/A = Not available

Engineering Air Pollution Emission Study

EMISSIONS FROM JET SLEDS AND JET ENGINE TESTING AT TRENTON NAPC

Building	Fuel Type	Emission Factors* CO (lb/hr)	NO (lb/hr)	Total HC (lb/hr)	SO2 (lb/hr)	Particulates (lb/hr)	Fuel Rate (lb/hr)	1991 Fuel Useage (gal)**	1991 Fuel Useage (lbs)***	Hours/Yr Tested ****	CO Emissions (tpy)#	NO Emissions (tpy)#	Total HC Emissions (tpy)#	SO2 Emissions (tpy)#	Particulate Emissions (tpy)#
Composite Jet Sleds & TNACP Jet Engine Testing	JP-5	15.7	123.2	0.7	7.4	61.7	7,394	126,109	882,763	119	0.9372	7.3544	0.0418	0.4417	3.6832

* From AP-42, Volume II, Table 1-1-6. Used values for a military aircraft engine, TF-30-p-412A(JFT 10A)P&W TJ for F-14, climbout.

** Fuel usage for 1991 is the total used for jet sled testing (36,109 gallons) and for jet engine testing at the Trenton NAPC test site (90,000 gallons).
Jet sled testing JP-5 useage is based on FY 1991. From December 1990 to November 1991, 33,100 gallons JP-5 was used.
33,100 was multiplied by 12/11 to obtain a value of JP-5 for FY 1991 (36,109 gallons).
JP-5 useage values were provided by Base personnel.
Total JP-5 purchased basewide in 1991 was 364,230 gallons plus a minimum of an extra 40,000 gallons purchased by TNAPC for a total of 404,230 gallons.
About 150,000 gallons JP-5 was used in 1991 for airplane and helicopter refueling. The remaining JP-5 is utilized by the Army (stationary).

*** To calculate weight of JP-5 used in 1991: 126,109 gals x 7.0 lbs/gal

**** Hours/year used were determined by dividing the fuel useage (lbs) by the fuel rate (lbs/hr).

\# Actual emissions are the same as potential emissions.

Engineering Air Pollution Emission Study

PARTICULATE EMISSIONS FROM DUST COLLECTORS

Building	Source	Efficiency APCD	Type of Particulate	Emissions w/ Control (lb/hr)*	Actual Hours/Yr Used**	Potential Hours/Yr Used***	Actual Emissions (tpy)	Potential Emissions (tpy)	Comments
88	Brake Reliner & Grinder	99.9%	Brake Lining Dust	0.000063	1000 #	12	0.0000315	0.000000378	3 sources vent to dust collector
88	Brake Drum Lathe & Grinder	99.9%	Asbestos Dust & Metal	0.002	1000 #	125	0.001	0.000125	
88	Brake Drum Lathe	99.9%	Asbestos Dust & Metal	0.002	1000 #	125	0.001	0.000125	
				0.000063	*TOTAL BRAKE LINING DUST*		*0.0000315*	*0.000000378*	
				0.004	TOTAL ABESTOS DUST/METAL		0.002	0.00025	
123	Wood Shop	N/A	Sawdust & Shavings	0.064 +	416	8760	0.013	0.280	12 sources vent to dust collector. Only 10 identified on site visit. Information on individual sources N/A. Assume all identical.
				0.768 (12 sources)	TOTAL SAWDUST		0.133	3.364	
				0.64 (10 sources)			(10 sources)	(12 sources)	
124	Small Grit Blasting Station	98% + +	Steel	0.5 + +	48	8760	0.012	2.19	1 source to vent with own dust collector.
124	Grit Blasting Station	98%	Steel	0.5	1000	8760	0.25	2.19	2 sources vent to Pangborn dust collector.
124	Grit Blasting Station	98%	Steel	0.5	1000	8760	0.25	2.19	
				1.5	TOTAL STEEL		0.5	4.38	
146	Metal Cutting Area	98%	Steel	0.5	150 ##	1560	0.0375	0.39	1 source vents to dust collector
146	Carpentry Shop	N/A	Sawdust	N/A	N/A	N/A	N/A	N/A	Located in sheet metal shed
146	Grinding Machines	98%	Steel or other metals	0.5 + +	240	5200	0.06	1.3	2 sources to vent
146	Grinding Machines	98%	Steel or other metals	0.5 + +	240	5200	0.06	1.3	
				1	TOTAL STEEL		0.12	2.6	
146	Carpentry Shop Sander	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	10 sources vent to dust collector
146	Carpentry Shop Circular Saw	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	Only 8 sources identified during site survey
146	Carpentry Shop Router	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Jointer	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Band Saw	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Shaper	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Planer	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Cut-off Saw	99%	Sawdust	0.064	1600 ###	260	0.0512	0.00832	
146	Carpentry Shop Floor Exhaust	99%	Sawdust	0.064		260		0.00832	
146	Carpentry Shop Radial Arm Saw	99%	Sawdust	0.064		260		0.00832	
				0.64 (10 sources)	TOTAL SAWDUST		0.4096	0.0832	
				0.512 (8 sources)			(8 sources)	(10 sources)	

Engineering Air Pollution Emission Study

PARTICULATE EMISSIONS FROM DUST COLLECTORS

Building	Source	Efficiency APCD	Type of Particulate	Emissions w/ Control (lb/hr)*	Actual Hours/Yr Used	Potential Hours/Yr Used**	Actual Emissions (tpy)	Potential Emissions (tpy)	Comments
191	Table Saw – 10 in blade	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	10 sources vent to dust collector
191	Disk Sander	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	Only 9 sources identified during site survey
191	Floor Sweep #1	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Floor Sweep #2	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Floor Sweep #3	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Radial Arm Saw – B&D	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Table Saw – Powermatic	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Shaper – Grizzly	99.9%	Sawdust	0.005	1000 ####	1000	0.0025	0.0025	
191	Jointer – Monarch	99.9%	Sawdust & Shavings	0.005	1000 ####	1000	0.0025	0.0025	
191	Planer – Delta RC-51	99.9%	Sawdust & Shavings	0.005	1000 ####	1000		0.0025	
				0.05 (10 sources) 0.045 (9 sources)	TOTAL SAWDUST		0.0225 (9 sources)	0.025 (10 sources)	
271	Jointer – Oliver Machinery	99.99%	Sawdust	0.0004	125 ?	125	0.000025	0.000025	11 sources vent to dust collector
271	Belt Sander – Walker Turner	99.99%	Sawdust	0.0001	62 ?	62	0.0000031	0.0000031	
271	Band Saw No.1 – DoAll Company	99.99%	Sawdust	0.001	500 ?	500	0.00025	0.00025	
271	Band Saw No.2 – Oliver Machinery	99.99%	Sawdust	0.0001	62 ?	62	0.0000031	0.0000031	
271	Band Saw No.3 – Tannewitz Works	99.99%	Sawdust	0.001	500 ?	500	0.00025	0.00025	
271	Radial Saw No.1 – DeWalt Model 20	99.99%	Sawdust	0.002	500 ?	500	0.0005	0.0005	
271	Radial Saw No.2 – DeWalt 14" Blde	99.99%	Sawdust	0.0008	250 ?	250	0.0001	0.0001	
271	Radial Saw No.3 – Delta Mfg Co	99.99%	Sawdust	0.0002	62 ?	62	0.0000062	0.0000062	
271	Table Saw No.1 – Oliver Machinery	99.99%	Sawdust	0.0011	250 ?	250	0.0001375	0.0001375	
271	Table Saw No.2 – Oliver Machinery	99.99%	Sawdust	0.0022	500 ?	500	0.00055	0.00055	
271	Table Saw No.3 – Oliver Machinery	99.99%	Sawdust	0.0011	250 ?	250	0.0001375	0.0001375	
				0.01		TOTAL SAWDUS	0.0019374	0.0019374	

N/A = Not available

* Obtained from permit. Assume actual is same as potential.

** Actual hours used were obtained from employee interviews during site visit, unless otherwise noted.

*** Obtained from permit. If permit not available, assumed worst possible case of 8760 hrs/yr.

\+ Value assumed based on highest emission factor for sawdust.

\+ + Assumed efficiency and emissions based on the two other grit blasting units at Building 124.

\+ + + Emissions released in lb/hr was not provided on the permit. Because this is the same type of dust collector installed in Building 148 metal cutting and it is being used for basically the same purpose, it is assumed that the emissions are identical.

\# Employees interviewed during site visit indicated equipment was used approximately 20 hours/week. That is approximately 1000 hours year. This number is way in excess of permit allowable.

\#\# Employees interviewed during site visit indicated equipment was used minimally. Therefore, actual operating hours are assumed at 150 hours/yr.

\#\#\# Employees interviewed during site visit indicated that equipment was used 32 hours/week. This is approximately 1600 hours/year and exceeds the permit allowable.

\#\#\#\# Employees interviewed during site visit indicated equipment was used 5 – 6 hrs/day for 15 days/month. That is 900 to 1080 hours/year. Assume hours used are what is allowed by permit.

? For 1991 assume hours used based on permit.

CTO 030 NAWC-AD LAKEHURST, NJ CTO 030 NAWC-AD LAKEHURST, NJ

CRITERIA AND HAZARDOUS AIR POLLUCRITERIA AND HAZARDOUS AIR POLLUTANTS FOR BOILERS

BUILDING #	BOILER #/NAME	BUILDING #	BOILER #/NAME	FUEL TYPE	HEAT INPUT (MMBTU/HR)	FUEL INPUT (GALLONS/HR) (SCF/HR)	HOURS/YEAR 1991 ACTUAL	FUEL INPUT (GALLONS/YEAR) (SCF/YR)	PERMIT ALLOWABLI HRS/YR	FUEL SULFUR CONTENT (%) (ACTUAL)
596	WELL-McLAIN BLR	596	WELL-McLAIN BLR	NATURAL GAS	1.36	1357.0	2490	3378930.0	2490	N/A
551	SUP COMB BLR	551	SUP COMB BLR	#2 OIL	2.10	15.0	389	5835.0		0.30%
307	YORK-SHIPLY BLR	307	YORK-SHIPLY BLR	#2 OIL	7.88	56.3	389	21885.3	8760	0.30%
15	B&W BOILER #1	15	B&W BOILER #1	#6 OIL	43.50	300.0	2856	397174.8		0.40%
15	B&W BOILER #2	15	B&W BOILER #2	#6 OIL	43.50	300.0	3756	522334.9		0.40%
15	B&W BOILER #3	15	B&W BOILER #3	#6 OIL	43.50	300.0	1968	273683.5		0.40%
15	KEELER BLR #4	15	KEELER BLR #4	#6 OIL	55.68	384.0	4668	830929.7		0.40%
264	CHAPEL BOILER	264	CHAPEL BOILER	NATURAL GAS	0.08	84.0	78	6534.0	722	N/A
362	FSTR WLR BLR #1	362	FSTR WLR BLR #1	#6 OIL	45.8	315.9	62	19640.3		2.10%
362	B&W BOILER #2	362	B&W BOILER #2	#6 OIL	97.90	675.2	435	293578.5	4000	2.10%
362	B&W BLR #2 SPHT	362	B&W BLR #2 SPHT	#6 OIL	15.15	105.0	0	0.0	2000	2.10%
362	CLVR BRKS BLR #6	362	CLVR BRKS BLR #6	#6 OIL	20.92	144.3	373	53776.8	8760	2.10%
362	CLVR BRKS BLR #7	362	CLVR BRKS BLR #7	#6 OIL	20.92	144.3	373	53776.8	832	2.10%

EMISSIONS FACTORS USED

	NATURAL GAS	#2 FUEL OIL	#6 FUEL OIL
SULFUR DIOXIDE	NOT APPLICABLE	MASS BALANCE	MASS BALANCE
NITROGEN OXIDES	100# NOx/10E06 FT3	20#/1000 GALLONS	55#/1000 GALLONS
TSP	3# TSP/10E06 FT3	2#/1000 GALLONS	8#/1000 GALLONS
NON-METHANE HC	5.3# NMHC/10E06 FT3	0.34#/1000 GALLONS	0.28#/1000 GALLONS
CARBON MONOXIDE	20# CO/10E06 FT3	5#/1000 GALLONS	5#/1000 GALLONS
ARSENIC	NOT APPLICABLE	4.2#/10E12 BTU	19#/10E12 BTU
BERYLLIUM	NOT APPLICABLE	2.5#/10E12 BTU	4.2#/10E12 BTU
CADMIUM	NOT APPLICABLE	10.5#/10E12 BTU	15.7#/10E12 BTU
CHROMIUM	NOT APPLICABLE	47.5#/10E12 BTU	21#/10E12 BTU
COPPER	NOT APPLICABLE	280#/10E12 BTU	278#/10E12 BTU
FORMALDEHYDE	88.12#/10E12 BTU	405#/10E12 BTU	405#/10E12 BTU
MANGANESE	NOT APPLICABLE	14#/10E12 BTU	26#/10E12 BTU
MERCURY	11.363#/10E12 BTU	3#/10E12 BTU	3.2#/10E12 BTU
NICKEL	NOT APPLICABLE	170#/10E12 BTU	1260#/10E12 BTU
SELENIUM	NOT APPLICABLE	23.42#/10E12 BTU	23.42#/10E12 BTU
VANADIUM	NOT APPLICABLE	69.5#/10E12 BTU	3515#/10E12 BTU
LEAD	NOT APPLICABLE	8.9#/10E12 BTU	28#/10E12 BTU

Engineering Air Pollution Emission Study

CTO 030 NAWC-AD LAKEHURST, NJ

CRITERIA AND HAZARDOUS AIR POLLU

BUILDING #	BOILER #/NAME	CONTROL EFFICIENCY (%)	SOx EMISSIONS (LB/HR)	NOx EMISSIONS (LB/HR)	TSP EMISSIONS (LB/HR)	NON-METHANE VOC EMISSIONS (LB/HR)	CO EMISSIONS (LB/HR)	1991 ACTUAL EMISSIONS SOx EMISSIONS (TPY)	NOx EMISSIONS (TPY)	TSP EMISSIONS (TPY)
596	WELL-McLAIN BLR	0	0.0008142	0.136	0.004	0.007	0.027	0.001	0.169	0.005
551	SUP COMB BLR	0	0.675	0.300	0.030	0.005	0.075	0.131	0.058	0.006
307	YORK-SHIPLY BLR	0	2.532	1.125	0.113	0.019	0.281	0.492	0.219	0.022
15	B&W BOILER #1	0	20.400	16.500	2.400	0.084	1.500	13.504	10.922	1.589
15	B&W BOILER #2	0	20.400	16.500	2.400	0.084	1.500	17.759	14.364	2.089
15	B&W BOILER #3	0	20.400	16.500	2.400	0.084	1.500	9.305	7.526	1.095
15	KEELER BLR #4	0	26.112	21.120	3.072	0.108	1.920	28.252	22.851	3.324
264	CHAPEL BOILER	0	5.040E-05	8.400E-03	2.520E-04	4.452E-04	1.680E-03	1.960E-06	3.267E-04	9.801E-06
362	FSTR WLR BLR #1	0	112.763	17.372	2.527	0.088	1.579	3.506	0.540	0.079
362	B&W BOILER #2	0	241.037	37.134	5.401	0.189	3.376	52.404	8.073	1.174
362	B&W BLR #2 SPHT	0	37.485	5.775	0.840	0.029	0.525	0.000	0.000	0.000
362	CLVR BRKS BLR #6	0	51.511	7.936	1.154	0.040	0.721	9.599	1.479	0.215
362	CLVR BRKS BLR #7	0	51.511	7.936	1.154	0.040	0.721	9.599	1.479	0.215

CALCULATIONS FOR WELDING EMISSIONS

Building/ Location	Type Welding	Control Device	No. Sources Venting to Stack	Actual Hours/Yr Used	Potential Hours/Yr Used*	Constituent	Fume Composition by Weight*	Fume Emissions per Source (lb/hr)**	Fume Emissions per Stack (lb/hr)***	Actual Fume Emissions (tpy)	Potential Fume Emissions (tpy)
272 Stack 1	Steel Arc	None	1	200	260	SiO2	9.5	0.0057	0.0057	0.00057	0.000741
						Fe2O3	24.5	0.0147	0.0147	0.00147	0.001911
						Al2O3	0.2	0.00012	0.00012	0.000012	0.0000156
						TiO2	0.2	0.00012	0.00012	0.000012	0.0000156
						ZrO2	0.6	0.00036	0.00036	0.000036	0.0000468
						MnO	7.2	0.00432	0.00432	0.000432	0.0005616
						ZnO	0.07	0.000042	0.000042	0.0000042	0.00000546
						CaO	5.3	0.00318	0.00318	0.000318	0.0004134
						MgO	0.1	0.00006	0.00006	0.000006	0.0000078
						K2O	17.6	0.01056	0.01056	0.001056	0.0013728
						Na2O	17.2	0.01032	0.01032	0.001032	0.0013416
						Cu	0.07	0.000042	0.000042	0.0000042	0.00000546
						Pb	0.02	0.000012	0.000012	0.0000012	0.00000156
						Cr	0.04	0.000024	0.000024	0.0000024	0.00000312
						Fe	15.7	0.00942	0.00942	0.000942	0.0012246
148 Welding Vent System #3	Steel Arc	None	6	50 Assumed – based on minimal use	4160	SiO2	9.5	0.0057	0.0342	0.000855	0.071136
						Fe2O3	24.5	0.0147	0.0882	0.002205	0.183456
						Al2O3	0.2	0.00012	0.00072	0.000018	0.0014976
						TiO2	0.2	0.00012	0.00072	0.000018	0.0014976
						ZrO2	0.6	0.00036	0.00216	0.000054	0.0044928
						MnO	7.2	0.00432	0.02592	0.000648	0.0539136
						ZnO	0.07	0.000042	0.000252	0.0000063	0.00052416
						CaO	5.3	0.00318	0.01908	0.000477	0.0396864
						MgO	0.1	0.00006	0.00036	0.000009	0.0007488
						K2O	17.6	0.01056	0.06336	0.001584	0.1317888
						Na2O	17.2	0.01032	0.06192	0.001548	0.1287936
						Cu	0.07	0.000042	0.000252	0.0000063	0.00052416
						Pb	0.02	0.000012	0.000072	0.0000018	0.00014976
						Cr	0.04	0.000024	0.000144	0.0000036	0.00029952
						Fe	15.7	0.00942	0.05652	0.001413	0.1175616
148 Large Item Welding Area Stack #2	Steel Arc	None	5	1040	4160	SiO2	9.5	0.0057	0.0285	0.01482	0.05928
						Fe2O3	24.5	0.0147	0.0735	0.03822	0.15288
						Al2O3	0.2	0.00012	0.0006	0.000312	0.001248
						TiO2	0.2	0.00012	0.0006	0.000312	0.001248
						ZrO2	0.6	0.00036	0.0018	0.000936	0.003744
						MnO	7.2	0.00432	0.0216	0.011232	0.044928
						ZnO	0.07	0.000042	0.00021	0.0001092	0.0004368
						CaO	5.3	0.00318	0.0159	0.008268	0.033072
						MgO	0.1	0.00006	0.0003	0.000156	0.000624
						K2O	17.6	0.01056	0.0528	0.027456	0.109824
						Na2O	17.2	0.01032	0.0516	0.026832	0.107328
						Cu	0.07	0.000042	0.00021	0.0001092	0.0004368
						Pb	0.02	0.000012	0.00006	0.0000312	0.0001248
						Cr	0.04	0.000024	0.00012	0.0000624	0.0002496
						Fe	15.7	0.00942	0.0471	0.024492	0.097968

* Obtained from permit

** Average fume emission is 0.06 lb/hr (from permit)
(0.06 lb/hr)(% composition) = fume emissions (lb/hr)

***Fume Emissions per source (lb/hr) x number of sources venting to stack

NOTE: It is believed that some of the above welding operations (especially Building 148 Ventilation System #3) are Oxygen/Acetylene

Engineering Air Pollution Emission Study

BUILDING 124 LEAD POT EMISSIONS

SOURCE	HEAT INPUT (MBTU/HR)	PROPANE CONSUMPTIC RATE (GAL/HR MAX)	LEAD CONSUMPTION (1991 ACTUAL) (#/WK)	LEAD CONSUMPTION (POTENTIAL) (#/HR)	PROPANE COMBUSTION EMISSIONS (BASED ON FULL FIRING RATE) SULFUR DIOXIDE (LB/HR)	NITROGEN OXIDES (LB/HR)	CARBON MONOXIDE (LB/HR)
LEAD POT #1	700	7.65	5	770.00	NEGLIGILBLE	0.095	0.024
LEAD POT #2	700	7.65	5	770.00	NEGLIGILBLE	0.095	0.024
			TOTAL EMISSIONS			0.190	0.047

Propane Higher Heating Value (BTU/GAL) 91500

Notes:

1. The lead pots in building 124 were replaced in late 1990 or early 1991.
The permit in place for this equipment requires revision to reflect the emissions
for the currently installed equipment. This spreadsheet represents currently installed equipment.
2. Potential lead emissions are based on a heat input ratio from the old equipment
(0.259+1.036=1.295 MMBTU/HR/0.7+0.7=1.4 MMBTU/HR)
3. 1991 FUEL CONSUMPTION BASED ON MELTING 5# OF LEAD PER WEEK AND KNOWING THAT THE
HEAT INPUT IS 700000 BTU/HR FOR 770 POUNDS OF LEAD/HOUR
AS A RESULT, EACH LEAD POT'S TOTAL HEAT INPUT FOR 1991 WAS 236400 BTU.
4. POTENTIAL EMISSIONS BASED ON 1560 HOUR/YEAR PER POT LIMITATION FROM OLD PERMIT

EMISSION RATES USED (FROM AP-42)

NITROGEN OXIDES (LB/GAL)	0.0124	
CARBON MONOXIDE (LB/GAL)	0.0031	
VOC (NON-METHANE)(LB/GAL)	0.00025	
VOC (METHANE)(LB/GAL)	0.00027	
PARTICULATE (LB/GAL)	0.000265	
PARTICULATE (LB/TON OF LEAD)	0.04	FROM AP-42 TABLE 7.11-1, CASTING COLUMN
LEAD (LB/TON OF LEAD)	0.01	FROM AP-42 TABLE 7.11-1, CASTING COLUMN

Engineering Air Pollution Emission Study

BUILDING 124 LEAD POT EMISSIONS

VOC (NON-METHANE) (LB/HR)	VOC (METHANE) (LB/HR)	PARTICULATES (LB/HR)	LEAD (LB/HR)	1991 ACTUAL EMISSIONS SULFUR DIOXIDE (TPY)	NITROGEN OXIDES (TPY)	CARBON MONOXIDE (TPY)	VOC (NON-METHANE) (TPY)
0.002	0.002	0.017	0.004	NEGLIGIBLE	1.602E-05	4.004E-06	3.229E-07
0.002	0.002	0.017	0.004	NEGLIGIBLE	1.602E-05	4.004E-06	3.229E-07
0.004	0.004	0.035	0.008		3.203E-05	8.008E-06	6.458E-07

AIR STRIPPER EMISSIONS AT NPL-1

Location	Control Device	Efficiency	Actual Hours/Yr Used	Potential Hours/Yr Used	Constituent	Actual Emissions w/Control (lbs/hr)*	Permitted Emissions w/o Control (lbs/hr)**	Actual Emissions (tpy)	Potential Emissions (tpy)
NPL-1	2 activated carbon filters in series	99%	8760	8760 +	1,2-Dichloroethane	2.2E-05	2.2E-03	0.00009636	0.009636
					1,1,1-Trichloroethane	1.5E-06	1.5E-04	0.00000657	0.000657
					Carbon Tetrachloride	2.8E-07	2.8E-05	0.000001226	0.00012264
					Trichloroethene	2.2E-05	2.2E-03	0.00009636	0.009636
					Benzene	3.0E-05	3.0E-03	0.0001314	0.01314
					1,1,2,2-Tetrachloroethane	2.8E-07	2.8E-05	0.000001226	0.00012264
					Toluene	1.7E-04	1.7E-02	0.0007446	0.07446
					Chlorobenzene	5.4E-07	5.4E-05	0.000002365	0.00023652
					Ethyl Benzene	6.7E-05	6.7E-03	0.00029346	0.029346
					Styrene	3.6E-07	3.6E-05	0.000001576	0.00015768
					Xylenes	6.3E-04	6.3E-02	0.0027594	0.27594

* Controls are accounted for in actual emissions because the units have carbon filters.
** The permit allowable emissions do not account for removal of VOCs with carbon filters.
Permit assumes maximum emissions without control (lb/hr) = maximum emissions wiht control (lb/hr)
\+ Note that permit lists potential hours as 9072.

Engineering Air Pollution Emission Study

Assumptions for Mv and P used to calculate Lb and Lw. Refer to AP-42 Table 4.3-2:
waste oil used values for oil no. 6
av gas used values for JP-4
mogas used values for RVP 10
diesel used JP-4 value (Mv only)

N/A = this information is not necessary for the calculation

* N.J.A.C. 7:27-8.2 requires tanks 2000 gallons or greater that store VOS to have a permit.
** N.J.A.C. 7:27-16.2 requires that stationary storage tanks with a capacity greater than 2000 gallons and are exposed to the sun must be painted white.
*** Working loss calculated using vapor recovery calculations.
$ Dimensions are estimated.
$$ Throughput dependent upon boiler useage. Assumed throughput value of 1,000 gallons/year.
$$$ Total quantity of JP-5 used by Building 583 in 1991 is 90,000 gallons. It is assumed that this quantity was distributed evenly among the three tanks. Note that calendar year 1991 was not typical. Average fuel useage for Building 583 is 100,000 to 150,000 gallons/year. In the first 6 months of CY 1992, 400,000 gallons of JP-5 have been used.
+ Used paint factor for a light gray tank in AP-42 Table 4.3-1..
++ Used the highest paint factor in AP-42 Table 4.3-1.
+++ Throughput is for FY 1991 not CY 1991.
++++ Throughput from December 1990 to November 1991 was 33,100 gallons. To obtain 36,109 gallons throughput took 33,100 x 12/11.
& The total throughput for the three tanks at Building 15 is 2,204,126 gallons in 1991. Individual tank throughputs were determined using the ratio of the tank capacity to the total tank capacities at Building 15.
&& Propane is used throughout the base for heating. Tank size and capacity is assumed.
&&& In 1991, 12,407 pounds of oil/water with minor solvent contamination was recycled (Source: 1991 Annual Hazardous Waste Report).
(.90)(12,407 lbs)/(7.94 lbs/gal) x (2,500 gal/4,500 gal) = 781 gallons
Assume that density of waste oil is the same as that of no. 6 oil (7.9 lbs/gal). Assume the oil/water mixture is 10% water/90% oil for a total density of 7.94lbs/gal (density of water is 8.34 lbs/gal).
Assume that the volume of oil/water generated from this tank is proportional to all of the oil water separator tanks on site (there are three oil/water separators on site with a total capacity of 4,500 gallons).
&&&& Throughput for all AGTs is for FY 1991 except for Building 596. Throughput for AGT at Building 596 is for January 1991 only -- building was converted to natural gas around March 1991).
@ For the two oil/water separators: In 1991, 12,407 pounds of oil/water with minor solvent contamination was recycled (Source: 1991 Annual Hazardous Waste Report).
(.90)(12,407 lbs)/(7.94 lbs/gal) x (2,000 gal/4,500 gal) = 625 gallons waste oil
Assume that density of waste oil is the same as that of no. 6 oil (7.9 lbs/gal). Assume the oil/water mixture is 10% water/90% oil for a total density of 7.94lbs/gal (density of water is 8.34 lbs/gal).
Assume that the volume of oil/water generated from this tank is proportional to all of the oil water separator tanks on site (there are three oil/water separators on site with a total capacity of 4,500 gallons).
For the 500 gal waste oil tank at Building 88, assume generated one tank capacity waste oil/year.
@@ Tanks at Buildings 264 (Cathedral) and 329 were used for part of 1991, however, no fuel useage is available. Accordingly, these tanks are not included in the calculations.
@@@ Based on 8,760 hours of operation per year.
? Assume throughput of 8 times tank capacity based on other mogas use at site (e.g., Building 424).
?? Assume throughput of about half of tanks capacitys as used for fueling emergency generators.
??? Assume throughput of one tank capacity.

NOTE: For composite tanks, tank dimensions are assumed.
NOTE: Tank losses for propane storage were not calculated. It is assumed the breathing and working losses are negligible because propane is a gas stored as a liquid under pressure.

(*) The HAP content of mogas by weight % is:
1.37% benzene
7.53% toluene
1.49% ethyl benzene
8.66% xylene
80.95% nonHAP
For mogas tanks these calculations are shown on the next page.

Building/Tank #	Contents	Tank Type	Mv	P (psia)	D (ft)	C	H (ft)	Paint Color
ABOVEGROUND TANKS GREATER THAN 2000 GALLONS*								
15 Tank 161	no. 6 fuel oil	AGT	190	0.00006	30	1.00	15.8	light green
15 Tank 162	no. 6 fuel oil	AGT	190	0.00006	30	1.00	15.8	light green
15 Tank 581	no. 6 fuel oil	AGT	190	0.00006	40	1.00	15.5	white
15	no. 2 fuel oil	AGT	130	0.0090	10	0.53	5.0	white
362	no. 6 fuel oil	AGT	190	0.00006	30	1.00	18.0	light green/gray
424 NJ 31	mogas	AGT	66	6.2	6.5 $	0.34	3.25 $	white
424 NJ 31	mogas	AGT	66	6.2	6.5 $	0.34	3.25 $	white
424 NJ 47	diesel	AGT	80	0.484	6.5 $	0.34	3.25 $	black**
368	no. 2 fuel oil	AGT	130	0.0090	10.5	0.55	5.25	white
NAPC Bldg 583 Tank #1	JP-5	AGT	130	0.011	8	0.43	2.5	not painted
NAPC Bldg 583 Tank #2	JP-5	AGT	130	0.011	8	0.43	2.5	not painted
NAPC Bldg 583 Tank #3	JP-5	AGT	130	0.011	6	0.30	3.0	not painted
489 Bowling Alley	no. 2 fuel oil	AGT	130	0.0090	6 $	0.30	3.0 $	white
397/521 Jet Sleds	JP-5	AGT	130	0.011	5 $	0.25	2.5 $	yellow
UNDERGROUND TANKS GREATER THAN 2000 GALLONS*								
196 Tank 6	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A
196 Tank 8	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A
367 Tank 10	mogas	UST	66	6.2	N/A	N/A	N/A	N/A
367 Tank 13	diesel fuel	UST	80	0.484	N/A	N/A	N/A	N/A
Oil/H2O Separator #3	waste oil	UST	190	0.00006	N/A	N/A	N/A	N/A
551	no. 2 fuel oil	UST	130	0.0090	N/A	N/A	N/A	N/A
COMPOSITE NO. 2 FUEL OIL TANK FOR HOUSING QUARTERS								
Composite	no.2 fuel oil	AGT	130	0.0090	10	0.53	5.0	assume light gray
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING MOGAS (2 AGTs at Building 583 (275 gallons and 500 gallons))								
Composite	mogas	AGT	66	6.2	3	0.15	1.5	yellow
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING DIESEL (4 AGTs at Buildings 282 (300 gal), 307 (50 gal), 307 (300 gal), 552 (300 gal)								
Composite	diesel	AGT	80	0.484	3	0.15	1.5	yellow
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING FUEL OIL NO. 2 (Seabee Compound (500 gal), Building 596 (2,000 gal – now remov								
Composite	no. 2 fuel oil	AGT	130	0.0090	5	0.25	2.5	assume gray
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING WASTE OIL (There is only one tank at Building 15)								
15	waste oil	AGT	190	0.00006	4	0.20	2.0	green
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING JP-5 (There are two 500 gallon AGTs at Building 583) Assume that these emissions are accounted for with the three 5,000 gallon AGTs.								
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING MOGAS (Building 342 (500 gal), 143 (515 gal))								
Composite	mogas	UST	66	6.2	N/A	N/A	N/A	N/A
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING FUEL OIL NO. 2 (Buildings 300 (1,000 gal), 342 (1,500 gal), 583 (500 gal))@@								
Composite	no. 2 fuel oil	UST	130	0.0090	N/A	N/A	N/A	N/A
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING WASTE OIL (2 oil/water separators (1,000 gal/each), Building 88 UST (500 gal))								
Composite	waste oil	UST	190	0.00006	N/A	N/A	N/A	N/A

EMISSION FACTORS FOR FUEL STORAGE - 1991 - Engineering Air Pollution Emission Study

LAKEHURST TANKS

Tank Loss = Breathing Loss + Working Loss

For above ground tanks:
Breathing Loss (Lb) = 0.0226 Mv (P/(PA−P))^0.68 D^1.73 H^0.51 T^0.50 Fp C Kc

where: Lb = breathing loss (lb/yr)
Mv = molecular weight of vapor in tank (lb/lb mole)
P = true vapor pressure at bulk liquid conditions at 70 F (psia)
PA = average atmospheric pressure at tank location (psia) = 14.7 psia
D = tank diameter (feet)
H = average vapor space height, assume tank height/2 (feet)
T = average ambient diurnal temperature change (F) = 16.6 F (based on NOAA LCD for Newark, NJ airport)
Fp = paint factor
C = adjustment factor for small diameter tanks
Kc = product factor = 1.0 for all organic liquids with the exception of crude oil

For USTs:
Breathing Loss (Lb) for UST storing mogas = 1.002E−3 Th
This figure is based on an average breathing emission rate of 120 mg per liter of throughput mogas (AP−42 page 4.4−14).
where: Lb = breathing loss (lb/yr)
Th = throughput (gal/yr)

Breathing Loss (Lb) for UST storing material other than mogas = (P of stored material/Pmogas) 1.002E−3 Th
where: P = true vapor pressure at bulk liquid conditions at 70 F (psia)

For all tanks (unless vapor recovery):
Working Loss (Lw) = (2.40E−5) Mv P V N Kn Kc

where: Lw = working loss (lb/yr)
Mv = molecular weight of vapor in tank (lb/lb mole)
P = true vapor pressure at bulk liquid conditions at 70 F (psia)
V = tank capacity (gallons)
N = number of tank turnovers = throughput/tank capacity
Kn = turnover factor = 1.0 for 36 turnovers per year or less
Kc = product factor = 1.0 for all organic liquids with the exception of crude oil

If tank is equipped with stage II vapor recovery:
Control efficiencies range from 88 to 92 percent (AP−42 page 4.4−15)
Assume efficiency of 90 percent
Multiply above working loss by (1−.90)

At Base only mogas tanks at Building 424 have vapor recovery.

Building/Tank #	Contents	Tank Type	Mv	P (psia)	D (ft)	C	H (ft)	Paint Color
ABOVEGROUND TANKS GREATER THAN 2000 GALLONS*								
15 Tank 161	no. 6 fuel oil	AGT	190	0.00006	30	1.00	15.8	light green
15 Tank 162	no. 6 fuel oil	AGT	190	0.00006	30	1.00	15.8	light green
15 Tank 581	no. 6 fuel oil	AGT	190	0.00006	40	1.00	15.5	white
15	no. 2 fuel oil	AGT	130	0.0090	10	0.53	5.0	white
362	no. 6 fuel oil	AGT	190	0.00006	30	1.00	18.0	light green/gray
424 NJ 31	mogas	AGT	66	6.2	6.5 $	0.34	3.25 $	white
424 NJ 31	mogas	AGT	66	6.2	6.5 $	0.34	3.25 $	white
424 NJ 47	diesel	AGT	80	0.484	6.5 $	0.34	3.25 $	black**
368	no. 2 fuel oil	AGT	130	0.0090	10.5	0.55	5.25	white
NAPC Bldg 583 Tank #1	JP-5	AGT	130	0.011	8	0.43	2.5	not painted
NAPC Bldg 583 Tank #2	JP-5	AGT	130	0.011	8	0.43	2.5	not painted
NAPC Bldg 583 Tank #3	JP-5	AGT	130	0.011	6	0.30	3.0	not painted
489 Bowling Alley	no. 2 fuel oil	AGT	130	0.0090	6 $	0.30	3.0 $	white
397/521 Jet Sleds	JP-5	AGT	130	0.011	5 $	0.25	2.5 $	yellow
UNDERGROUND TANKS GREATER THAN 2000 GALLONS*								
196 Tank 6	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A
196 Tank 8	JP-5	UST	130	0.011	N/A	N/A	N/A	N/A
367 Tank 10	mogas	UST	66	6.2	N/A	N/A	N/A	N/A
367 Tank 13	diesel fuel	UST	80	0.484	N/A	N/A	N/A	N/A
Oil/H2O Separator #3	waste oil	UST	190	0.00006	N/A	N/A	N/A	N/A
551	no. 2 fuel oil	UST	130	0.0090	N/A	N/A	N/A	N/A
COMPOSITE NO. 2 FUEL OIL TANK FOR HOUSING QUARTERS								
Composite	no.2 fuel oil	AGT	130	0.0090	10	0.53	5.0	assume light gray
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING MOGAS (2 AGTs at Building 583 (275 gallons and 500 gallons))								
Composite	mogas	AGT	66	6.2	3	0.15	1.5	yellow
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING DIESEL (4 AGTs at Buildings 282 (300 gal), 307 (50 gal), 307 (300 gal), 552 (300 gal)								
Composite	diesel	AGT	80	0.484	3	0.15	1.5	yellow
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING FUEL OIL NO. 2 (Seabee Compound (500 gal), Building 596 (2,000 gal – now remov								
Composite	no. 2 fuel oil	AGT	130	0.0090	5	0.25	2.5	assume gray
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING WASTE OIL (There is only one tank at Building 15)								
15	waste oil	AGT	190	0.00006	4	0.20	2.0	green
COMPOSITE ABOVEGROUND TANKS LESS THAN 2,000 GALLONS STORING JP-5 (There are two 500 gallon AGTs at Building 583) Assume that these emissions are accounted for with the three 5,000 gallon AGTs.								
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING MOGAS (Building 342 (500 gal), 143 (515 gal))								
Composite	mogas	UST	66	6.2	N/A	N/A	N/A	N/A
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING FUEL OIL NO. 2 (Buildings 300 (1,000 gal), 342 (1,500 gal), 583 (500 gal))@@								
Composite	no. 2 fuel oil	UST	130	0.0090	N/A	N/A	N/A	N/A
COMPOSITE USTS LESS THAN 2,000 GALLONS STORING WASTE OIL (2 oil/water separators (1,000 gal/each), Building 88 UST (500 gal))								
Composite	waste oil	UST	190	0.00006	N/A	N/A	N/A	N/A

Fp	V (gal)	Th (gal/yr)	N	Kn	Lb (lb/yr)	Lw (lb/yr)	Lt (lb/yr)	Lt (tpy)	Lt (lb/hr)@@@
1.33 +	150,000	552,034 &	3.68 &	1.0	7.39	0.15	7.54	0.00377	0.00086
1.33 +	150,000	552,034 &	3.68 &	1.0	7.39	0.15	7.54	0.00377	0.00086
1.00	250,000	920,057 &	3.68 &	1.0	9.06	0.25	9.31	0.00465	0.00106
1.00	8,000	1,000 $$	0.13	1.0	5.06	0.03	5.09	0.00254	0.00058
1.33	190,000	420,776	2.21	1.0	7.90	0.12	8.02	0.00401	0.00092
1.00	6,000	52,500	8.75	1.0	77.52	51.56 ***	129.08	0.06454 (*)	0.01473
1.00	6,000	52,500	8.75	1.0	77.52	51.56 ***	129.08	0.06454 (*)	0.01473
1.58 +-	6,000	30,397	5.07	1.0	18.48	28.25	46.72	0.02336	0.00533
1.00	20,000	77,111	3.86	1.0	5.86	2.17	8.02	0.00401	0.00092
1.39	5,000	30,000 $$$	6.00	1.0	3.12	1.03	4.15	0.00208	0.00047
1.39	5,000	30,000 $$$	6.00	1.0	3.12	1.03	4.15	0.00208	0.00047
1.39	5,000	30,000 $$$	6.00	1.0	1.45	1.03	2.48	0.00124	0.00028
1.00	5,000	2,291 +++	0.46	1.0	0.91	0.06	0.98	0.00049	0.00011
1.33 +	3,000	36,109 +++	12.04	1.0	0.77	1.24	2.01	0.00100	0.00023
N/A	50,000	364,230	7.28	1.0	0.65	12.50	13.15	0.00657	0.00150
N/A	50,000	364,230	7.28	1.0	0.65	12.50	13.15	0.00657	0.00150
N/A	20,000	17,426	0.87	1.0	17.46	171.14	188.60	0.09430 (*)	0.02153
N/A	20,000	22,454	1.12	1.0	1.76	20.87	22.62	0.01131	0.00258
N/A	2,500	781 &&&	0.31	1.0	0.00001	0.00021	0.00022	1.11E-07	2.53E-08
N/A	4,000	5,837 +++	1.46	1.0	0.01	0.16	0.17	0.00009	0.00002
1.33	7,150	24,109 +++	3.37	1.0	6.73	0.68	7.41	0.00370	0.00085
1.33 +	775	6,200 ?	8.00	1.0	8.05	60.89	68.94	0.03447 (*)	0.00787
1.33 +	950	475 ??	0.50	1.0	1.21	0.44	1.66	0.00083	0.00019
1.33	3,300	6660 &&&&	2.02	1.0	0.67	0.19	0.86	0.00043	0.00010
1.33 +	350	350 ???	1.00	1.0	0.02	0.0001	0.02	0.00001	1.81E-06
N/A	1,015	8,120 ?	8.00	1.0	8.14	79.74	87.88	0.04394 (*)	0.01003
N/A	3,000	7,180	2.39	1.0	0.01	0.20	0.21	0.00011	0.00002
N/A	2,500	1,125 @	0.45	1.0	0.00001	0.00031	0.00032	1.59E-07	3.64E-08

l)

ed), 362 (300 gal), 15 (assume 500 gal))

Assumptions for Mv and P used to calculate Lb and Lw. Refer to AP-42 Table 4.3-2:
waste oil used values for oil no. 6
av gas used values for JP-4
mogas used values for RVP 10
diesel used JP-4 value (Mv only)

N/A = this information is not necessary for the calculation

* N.J.A.C. 7:27-8.2 requires tanks 2000 gallons or greater that store VOS to have a permit.
** N.J.A.C. 7:27-16.2 requires that stationary storage tanks with a capacity greater than 2000 gallons and are exposed to the sun must be painted white.
*** Working loss calculated using vapor recovery calculations.
$ Dimensions are estimated.
$$ Throughput dependent upon boiler useage. Assumed throughput value of 1,000 gallons/year.
$$$ Total quantity of JP-5 used by Building 583 in 1991 is 90,000 gallons. It is assumed that this quantity was distributed evenly among the three tanks. Note that calendar year 1991 was not typical. Average fuel useage for Building 583 is 100,000 to 150,000 gallons/year. In the first 6 months of CY 1992, 400,000 gallons of JP-5 have been used.
+ Used paint factor for a light gray tank in AP-42 Table 4.3-1..
++ Used the highest paint factor in AP-42 Table 4.3-1.
+++ Throughput is for FY 1991 not CY 1991.
++++ Throughput from December 1990 to November 1991 was 33,100 gallons. To obtain 36,109 gallons throughput took 33,100 x 12/11.
& The total throughput for the three tanks at Building 15 is 2,204,126 gallons in 1991. Individual tank throughputs were determined using the ratio of the tank capacity to the total tank capacities at Building 15.
&& Propane is used throughout the base for heating. Tank size and capacity is assumed.
&&& In 1991, 12,407 pounds of oil/water with minor solvent contamination was recycled (Source: 1991 Annual Hazardous Waste Report).
(.90)(12,407 lbs)/(7.94 lbs/gal) x (2,500 gal/4,500 gal) = 781 gallons
Assume that density of waste oil is the same as that of no. 6 oil (7.9 lbs/gal). Assume the oil/water mixture is 10% water/90% oil for a total density of 7.94lbs/gal (density of water is 8.34 lbs/gal).
Assume that the volume of oil/water generated from this tank is proportional to all of the oil water separator tanks on site (there are three oil/water separators on site with a total capacity of 4,500 gallons).
&&&& Throughput for all AGTs is for FY 1991 except for Building 596. Throughput for AGT at Building 596 is for January 1991 only - building was converted to natural gas around March 1991).
@ For the two oil/water separators: In 1991, 12,407 pounds of oil/water with minor solvent contamination was recycled (Source: 1991 Annual Hazardous Waste Report).
(.90)(12,407 lbs)/(7.94 lbs/gal) x (2,000 gal/4,500 gal) = 625 gallons waste oil
Assume that density of waste oil is the same as that of no. 6 oil (7.9 lbs/gal). Assume the oil/water mixture is 10% water/90% oil for a total density of 7.94lbs/gal (density of water is 8.34 lbs/gal).
Assume that the volume of oil/water generated from this tank is proportional to all of the oil water separator tanks on site (there are three oil/water separators on site with a total capacity of 4,500 gallons).
For the 500 gal waste oil tank at Building 68, assume generated one tank capacity waste oil/year.
@@ Tanks at Buildings 264 (Cathedral) and 329 were used for part of 1991, however, no fuel useage is available. Accordingly, these tanks are not included in the calculations.
@@@ Based on 8,760 hours of operation per year.
? Assume throughput of 8 times tank capacity based on other mogas use at site (e.g., Building 424).
?? Assume throughput of about half of tanks capacitys as used for fueling emergency generators.
??? Assume throughput of one tank capacity.

NOTE: For composite tanks, tank dimensions are assumed.
NOTE: Tank losses for propane storage were not calculated. It is assumed the breathing and working losses are negligible because propane is a gas stored as a liquid under pressure.

(*) The HAP content of mogas by weight % is:
1.37% benzene
7.53% toluene
1.49% ethyl benzene
8.66% xylene
80.95% nonHAP
For mogas tanks these calculations are shown on the next page.

MASS BALANCE FOR PAINTS, COATINGS, CLEANERS

Building	Paint Type	Constituent	Weight %	Density (lb/gal)	lb constituent/gal	Gallons Paint Used per Hour	Actual Hours Used per Year ***	Permitted Hours per Year	Type of Control Eqmt	Efficiency (Percent)	Actual Emissions (lb/hr) ##	Actual Emissions (tpy)	Permitted Emissions (tpy)
B 194 (Darissa)	Type 1 *	Solids	37 ++	10.62 +++	3.93	0.0625	780	104	Particulate Filter	94	0.002	0.001	0.0001
		Aliphatic Naptha	22		2.34	0.0625	780	104			0.15	0.06	0.01
		Xylenes	41		4.35	0.0625	780	104			0.27	0.11	0.01
	Type 2 *	Solids	37 ++	10.62 +++	3.93	0.0625	780	104	Particulate Filter	94	0.002	0.001	0.0001
		Xylene	4		0.42	0.0625	780	104			0.03	0.01	0.001
		Toluene	7		0.74	0.0625	780	104			0.05	0.02	0.002
		Exxate 600	26		2.76	0.0625	780	104			0.17	0.07	0.01
		N-Butyl Acetate	7		0.74	0.0625	780	104			0.05	0.02	0.002
		MEK	19		2.02	0.0625	780	104			0.13	0.05	0.01
	Type 3 *	Solids	37 ++	10.62 +++	3.93	0.0625	780	104	Particulate Filter	94	0.002	0.001	0.0001
		Toluene	38		4.04	0.0625	780	104			0.25	0.10	0.01
		MIBK	1		0.11	0.0625	780	104			0.01	0.003	0.0003
		EB Solvent	2		0.21	0.0625	780	104			0.01	0.01	0.001
		Methanol	6		0.64	0.0625	780	104			0.04	0.02	0.002
		Acetone	16		1.70	0.0625	780	104			0.11	0.04	0.01
	Type 4 *	Solids	37 ++	10.62 +++	3.93	0.0625	780	104	Particulate Filter	94	0.002	0.001	0.0001
		Toluene	37		3.93	0.0625	780	104			0.25	0.10	0.01
		Acetone	13		1.38	0.0625	780	104			0.09	0.03	0.004
		Isopropanol	8		0.85	0.0625	780	104			0.05	0.02	0.003
		N-Butyl Acetate	3		0.32	0.0625	780	104			0.02	0.01	0.001
		MIBK	2		0.21	0.0625	780	104			0.01	0.01	0.001

Building	Paint Type	Constituent	Weight %	Density (lb/gal)	lb constituent/gal	Gallons Paint Used per Hour	Actual Hours Used per Year	Permitted Hours per Year ***	Type of Control Eqmt	Efficiency (Percent)	Actual Emissions (lb/hr) ##	Actual Emissions (tpy)	Potential Emissions (tpy)
B 149 Paint Booth 1	Enamel **	Titanium Dioxide	46	11.16	5.37	0.08	1248	2000	Particulate Filter	99	0.001	0.0004	0.001
		Aliphatic Naptha	26		2.91	0.08	1248	2000			0.24	0.15	0.24
		Alkyd Resin	24		2.68	0.08	1248	2000			0.22	0.14	0.22
		Additives	2		0.22	0.08	1248	2000			0.00003	0.00002	0.00003
	Epoxy **	Epoxy Resin	50	8.35	4.17	0.75	1248	2000	Particulate Filter	99	0.005	0.003	0.005
		Glycol Ethers	13		1.08	0.75	1248	2000			0.81	0.51	0.81
		Toluene	12		1.00	0.75	1248	2000			0.75	0.47	0.75
		Acetic Acid	10		0.83	0.75	1248	2000			0.62	0.39	0.62
		Aromatic Naptha	10		0.83	0.75	1248	2000			0.62	0.39	0.62
		N-Butyl Alcohol	5		0.42	0.75	1248	2000			0.31	0.19	0.31

Engineering Air Pollution Emission Study

MASS BALANCE FOR PAINTS, COATINGS, CLEANERS

Building	Paint Type	Constituent	Weight %	Density (lb/gal)	lb constituent/gal	Gallons Paint Used per Hour	Actual Hours Used per Year	Permitted Hours per Year ***	Type of Control Eqmt	Efficiency (Percent)	Actual Emissions (lb/hr) ##	Actual Emissions (tpy)	Potential Emissions (tpy)
B 149 Paint Booth 2	Enamel **	Titanium Dioxide	46	11.18	5.37	0.08	1248	2000	Particulate Filter	99	0.001	0.0004	0.001
		Aliphatic Naptha	26		2.91	0.08	1248	2000			0.24	0.15	0.24
		Alkyd Resin	24		2.68	0.08	1248	2000			0.22	0.14	0.22
		Additives	2		0.22	0.08	1248	2000			0.00003	0.00002	0.00003
	Epoxy **	Epoxy Resin	50	8.35	4.17	0.75	1248	2000	Particulate Filter	99	0.005	0.003	0.005
		Glycol Ethers	13		1.08	0.75	1248	2000			0.81	0.51	0.81
		Toluene	12		1.00	0.75	1248	2000			0.75	0.47	0.75
		Acetic Acid	10		0.83	0.75	1248	2000			0.62	0.39	0.62
		Aromatic Naptha	10		0.83	0.75	1248	2000			0.62	0.39	0.62
		N-Butyl Alcohol	5		0.42	0.75	1248	2000			0.31	0.19	0.31

* Assume each type of paint is used 25% of the time
** Assume 90% epoxy, 10% enamel from site interview
*** From spray booth permit
+ + Assume 37% solids (average from MSDSs)
+ + + Assume 10.62 lb/gal (average from MSDSs)
Assume 15% overspray (from permit information)

Volume percent of constituents from MSDSs are assumed to be equivalent to weight percent

The 37% solids value is an average from the MSDSs and is assumed to be weight percent

PLANT ID

COMPANY NAM. .NITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF EN\' \MENTAL PROTECTION AND ENERGY

ANNUAL EMI. .N STATEMENT

FORM I

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C001	AIRCRAFT PARTS	0.30	234	3.0	780.0	5.0	1.50	000	000	000	0.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C001								000	000	000	0 %

TOTAL ACTUAL VOC EMISSIONS 351 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C002	METAL AIRCRAFT/CARRIER GEAR	1.00	12	0.3	12.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C002											%

TOTAL ACTUAL VOC EMISSIONS 42 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISS. STATEMENT

FORM E P

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C003	METAL AIRCRAFT/CARRIER GEAR	1.00	85	2.0	85.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C003											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 297.5 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C004	METAL AIRCRAFT/CARRIER GEAR	1.00	3	3.0	3.0	1.0	4.40	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C004											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 13.2 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSIONS STATEMENT

FORM E P

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C005	METAL AIRCRAFT/CARRIER GEAR	1.00	4	4.0	4.0	1.0	3.30	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C005											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 13.7 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C006	METAL AIRCRAFT/CARRIER GEAR	1.00	20	0.5	20.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C006											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 70 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISS. STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C007	METAL AIRCRAFT/CARRIER GEAR	1.00	18	0.5	18.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C007											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 63 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C008	METAL AIRCRAFT/CARRIER GEAR	1.00	73	1.0	73.0	2.0	2.80	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C008											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 204.4 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 7814

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIR ENTAL PROTECTION AND ENERGY

ANNUAL EMISSI.. STATEMENT

FORM E PA , OF 12

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C009	METAL AIRCRAFT/CARRIER GEAR	1.00	100	2.0	100.0	1.0	2.80	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

____ SOURCE DID NOT OPERATE IN 1993

93	C009											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 780 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C010	METAL AIRCRAFT/CARRIER GEAR	0.25	130	2.0	520.0	5.0	8.00	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

____ SOURCE DID NOT OPERATE IN 1993

93	C010											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 1040 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

PLANT ID 781

COMPANY NAME: U...ED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIF ...ENTAL PROTECTION AND ENERGY
ANNUAL EMISS... STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C011	METAL AIRCRAFT/CARRIER GEAR	0.25	55	1.0	220.0	5.0	8.00	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

___ ___ ___ ___ %

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

TOTAL ACTUAL VOC EMISSIONS 440 (LBS/YR)

93	C011											

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C012	METAL AIRCRAFT/CARRIER GEAR	1.00	28	0.5	28.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

___ ___ ___ ___ %

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

TOTAL ACTUAL VOC EMISSIONS 98 (LBS/YR)

93	C012											

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIF 'ENTAL PROTECTION AND ENERGY

ANNUAL EMISS. . STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C013	METAL AIRCRAFT/CARRIER GEAR	1.00	200	4.0	200.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C013											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 700 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C014	METAL AIRCRAFT/CARRIER GEAR	1.00	9	1.0	9.0	1.0	4.40	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C014											

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 39.9 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 7814

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIR ENTAL PROTECTION AND ENERGY

ANNUAL EMISSI STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C015	METAL AIRCRAFT/CARRIER GEAR	1.00	8	1.0	8.0	1.0	3.30	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93 C015 _____ _____ _____ _____ _____ _____ _____

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 26.4 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C016	METAL AIRCRAFT/CARRIER GEAR	1.00	50	1.0	50.0	1.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93 C016 _____ _____ _____ _____ _____ _____ _____

___ ___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 175 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSIONS STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C017	METAL AIRCRAFT/CARRIER GEAR	1.00	40	0.5	40.0	2.0	3.50	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93 C017

___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 140 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	OPERATING HOURS: HRS PER YR	OPERATING HOURS: DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM	VOC CONTROL DEVICE CODES: SEC	VOC CONTROL DEVICE CODES: TERT	OVERALL EFFICIENCY
92	C018	MERAL AIRCRAFT/CARRIER GEAR	1.00	172	3.0	172.0	1.0	2.80	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93 C018

___ ___ ___ %

TOTAL ACTUAL VOC EMISSIONS 481.6 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___

PLANT ID 781

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIF ENTAL PROTECTION AND ENERGY

ANNUAL EMISS... STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID	TYPE OF PRODUCT COATED	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS HRS. PER OZONE DAY	HRS PER YR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY
92	C019	METAL AIRCRAFT/CARRIER GEAR	1.00	235	5.0	235.0	1.0	2.80	099	000	000	78.0 %

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

✓ SAME AS ABOVE

___ SOURCE DID NOT OPERATE IN 1993

93	C019											

TOTAL ACTUAL VOC EMISSIONS 658 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

PLANT ID 78

COMPANY NAME UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIF ENTAL PROTECTION AND ENERGY
ANNUAL EMISS STATEMENT

FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93	C020	.04	10	1.0	250	5	4.88	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 48.8 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 LACQUER MIL-L-19538								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			
93	C021	.025	1	1.0	40	2	4.70	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 4.7 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 POLYURETHANE MIL-C-46168								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			
93	C022	.025	5	1.0	100	5	4.0	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 20.0 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 ENAMEL, ALKYD TT-E-489								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			
93	C023	.025	1	1.0	40	2	4.23	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 4.23 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 EPOXY-POLYAMIDE MIL-C-22750								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			
93	C024	.0375	15	4.0	400	5	4.6	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 69.0 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 ZINC CHROMATE TT-P-1757								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			
93	C025	.10	1	.5	10	1	5.45	000	000	000	0
TYPE OF PRODUCT COATED AIRCRAFT PARTS								TOTAL ACTUAL VOC EMISSIONS 5.45 (LBS/YR)			
___ SOURCE DID NOT OPERATE IN 1993 EPOXY POLYAMIDE MIL-P-2377								CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ___			

PLANT ID 781

COMPANY NAME UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSION STATEMENT
FORM E - PROCESS AND VOC EMISSION INFORMATION FOR SURFACE COATING OPERATIONS

PLEASE SEE INSTRUCTION BOOKLET (SECTION E) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	OPERATING HOURS: HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	VOC CONTROL DEVICE CODES: PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93	C026	.03	15	5	500	5	6.83	000	000	000	0

TYPE OF PRODUCT COATED AIRCRAFT PARTS

THINNER, DOPE & LACQUER TT-T-266

TOTAL ACTUAL VOC EMISSIONS 102.45 (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93											

TYPE OF PRODUCT COATED ____

TOTAL ACTUAL VOC EMISSIONS ____ (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93											

TYPE OF PRODUCT COATED ____

TOTAL ACTUAL VOC EMISSIONS ____ (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93											

TYPE OF PRODUCT COATED ____

TOTAL ACTUAL VOC EMISSIONS ____ (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93											

TYPE OF PRODUCT COATED ____

TOTAL ACTUAL VOC EMISSIONS ____ (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

EMISSION YEAR	COATING OPERATION ID FROM FORM A	GALS. COAT APPLIED PER HOUR	GALS. COAT APPLIED PER YEAR	HRS. PER OZONE DAY	HRS. PER YEAR	DAYS PER OZONE WEEK	POUNDS OF VOC PER GAL COATING	PRIM.	SEC.	TERT.	OVERALL EFFICIENCY (PERCENT)
93											

TYPE OF PRODUCT COATED ____

TOTAL ACTUAL VOC EMISSIONS ____ (LBS/YR)

CHECK IF EMISSIONS FROM SOURCE ARE INCLUDED ON FORM I ____

___ SOURCE DID NOT OPERATE IN 1993

PLANT ID 78144

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSIONS STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	048-01	3.0	1097.0	7.0	000	000	000	95.0	VOC	4	0.00 E 0	0.01	0.01

A. PROCESS RATE: 0.27 PER DAY, 100.25 PER YEAR

B. PROCESS RATE UNITS ARE MGAL

C. THIS IS PRODUCT/OUTPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93 048-01 3.0 1097 7.0 0 0 0 95 VOC 4 0 E ___ ___ 0.01 0.01

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .222 PER DAY, 81.39 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	055-01	0.8	40.0	1.0	000	000	000	0.0	VOC	3	0.00 E 0	0.52	0.01

A. PROCESS RATE: 2.00 PER DAY, 50.00 PER YEAR

B. PROCESS RATE UNITS ARE PIECES

C. THIS IS PRODUCT/OUTPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93 055-01 0.2 40.0 2 000 000 000 ___ VOC 4 ___ E ___ ___ 0.52 0.01

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 40 PER DAY, 200 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78144

COMPANY NAME: UNITED STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	061-01	6.0	1560.0	5.0	000	000	000	0.0	CO	2	0.00 E 0	0.03	0.02

A. PROCESS RATE: 2.31 PER DAY, 600.60 PER YEAR

B. PROCESS RATE UNITS ARE TONS

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93 061-01 6 260 5 000 000 000 0 CO 4 2 E -5 lb/CFM 0.014 1.8E-3

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 30 PER DAY, 1300 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	061-01	6.0	1560.0	5.0	000	000	000	0.0	NOX	2	12.40 E 3 LB/GAL	2.31	600.60

A. PROCESS RATE: 40.00 PER DAY, 10400.00 PER YEAR

B. PROCESS RATE UNITS ARE TONS

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93 061-01 6 260 5 000 000 000 000 NOX 4 1 E -4 lb/CFM 0.07 9.0E-3

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 30 PER DAY, 1300 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78144

COMPANY NAME STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISS STATEMENT
FORM F - PROCESS AND EMISSION INFO ATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	061-01	6.0	1560.0	5.0	000	000	000	0.0	VOC	2	0.27 E 3 LB/GAL	0.01	0.01

A. PROCESS RATE: 2.31 PER DAY, 600.60 PER YEAR

B. PROCESS RATE UNITS ARE TONS

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93	061-01	6	260	5	000	000	000	0	VOC	4	2.7 E -6	0.002	3.0E-4

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 30 PER DAY, 1300 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	067-01	24.0	8328.0	7.0	048	048	000	100.0	VOC	1	0.00 E 0	0.00	0.00

A. PROCESS RATE: 288.00 PER DAY, 105120.00 PER YEAR

B. PROCESS RATE UNITS ARE MGAL

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93	067-01	24.0	5112	7.0	048	048	___	100.0	VOC	2	0 E ___	0	0

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 288 PER DAY, 10512 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

LANT ID 781-14

OMPANY NAME) STATES GOVERNMENT

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	070-01	24.0	3960.0	7.0	048	048	000	100.0	VOC	1	0.00 E 0	0.00	0.00

A. PROCESS RATE: 172.80 PER DAY, 63072.00 PER YEAR

B. PROCESS RATE UNITS ARE MGAL

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93	070-01	24.0	8760	7.0	048	048	___	100	VOC	2	0 E	___	___	0 0

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 172.8 PER DAY, 63072 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

EMISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HRS/DAY	HRS/YEAR	DAYS/WEEK	CONTROL DEVICE CODES PRIM	SEC	TERT	OVERALL EFFICIENCY	POLLUTANT CATEGORY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YEAR
92	A50-03	8.0	1248.0	3.0	000	000	000	0.0	VOC	2	0.00 E 0	0.21	0.90

A. PROCESS RATE: 0.01 PER DAY, 1.25 PER YEAR

B. PROCESS RATE UNITS ARE MGAL

C. THIS IS RAW MATERIAL/INPUT

PROVIDE 1993 DATA HERE - IF ANY OF THE DATA CHANGES FROM ABOVE, THEN THE ENTIRE LINE MUST BE COMPLETED.

93	___	___	___	___	___	___	___	___	___	___	___ E	___	___	___ ___

___ SAME AS ABOVE ___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: _____ PER DAY, _____ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78114

COMPANY N/ S Government - Navy

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMI' N STATEMENT

FORM F - PROCESS AND EMISSION IN MATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	A51-01	3.2	832	5	TSP	000	000	000		5	E	0.29	0.12
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.0024 PER DAY, 0.624 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	A51-02	3.2	832	5	TSP	000	000	000		5	E	0.29	0.12
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.0024 PER DAY, 0.624 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	A51-03	3.2	832	5	TSP	000	000	000		5	E	0.29	0.12
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.0024 PER DAY, 0.624 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78114

COMPANY NA Government-Navy

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	A51-04	3.2	832	5	TSP	000	000	000		5	E	0.29	0.12
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.0024 PER DAY, 0.624 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	A51-05	3.2	832	5	TSP	000	000	000		5	E	0.29	0.12
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.0024 PER DAY, 0.624 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	006-01	6	1560	5	TSP	018			98%	5	E	0.5	0.39
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 201 PER DAY, 52,260 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ✓ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 16144

NEW JERSEY DEPARTMENT

COMPANY NAME Government-Navy

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	053-01	1.3	347	5	TSP	000	000	000			E	0.029	0.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	053-02	1.3	347	5	TSP	000	000	000			E	0.029	0.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	053-03	1.3	347	5	TSP	000	000	000			E	0.029	0.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

COMPANY NAME Navy

S Government FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND PLANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	053-04	1.3	347	5	TSP	000	000	000			E	0.029	0.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	053-05	1.3	347	5	TSP	000	000	000			E	0.029	0.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 0.010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93											E		
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: ___ PER DAY, ___ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 7?

COMPANY NAM SGovernment - Navy

NEW JERSEY DEPARTMENT OF ENVIR MENTAL PROTECTION AND ENERGY
ANNUAL EMIS STATEMENT

FORM F F

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	057-01	8	2080	5	TSP	018			99%	4	5 E lbs/hr	.05	.05
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS X RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-02	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-03	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 7

COMPANY NA. US Government - Navy

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
ANNUAL EMISSION STATEMENT

FORM F

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	057-04	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___
(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-05	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___
(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-06	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___
(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 7[illegible]44

COMPANY N US Government- Navy

NEW JERSEY DEPARTMENT OF ENV[illegible]ONMENTAL PROTECTION AND ENERGY

ANNUAL EM[illegible]N STATEMENT

FORM F - PROCESS AND EMISSION IN[illegible]ORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	057-07	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS X RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-08	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS X RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	057-09	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS X RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 79 1

COMPANY NA S Government - Navy

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMISSIONS STATEMENT

FORM F

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	057-10	8	2080	5	TSP	018			99%	4	2 E lbs/hr	.02	.02
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .008 PER DAY, 2.08 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS X TONS ___ CF (CHECK ONE)

C. IS THIS X RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93											E		
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: _____ PER DAY, _____ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93											E		
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: _____ PER DAY, _____ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 7 4

COMPANY N. US Government - Navy

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	061-01	6	260	5	TSP	000	000	000	0	4	3 E-6	0.018	2.3E-3
					Pb	000	000	000	0	4	1 E-2	0.001	5.0E-4

___ SOURCE DID NOT OPERATE IN 1993

A PROCESS RATE 30 PER DAY 1300 PER YEAR

B PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93

___ SOURCE DID NOT OPERATE IN 1993

A PROCESS RATE ___ PER DAY ___ PER YEAR

B PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93

___ SOURCE DID NOT OPERATE IN 1993

A PROCESS RATE ___ PER DAY ___ PER YEAR

B PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 18144

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL

COMPANY US Government - Navy

ANNUAL EMISSION STATEMENT

FORM F PAGE 14 OF 24

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	063-01	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	063-02	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	063-03	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78144

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMPANY N/ S Government - Navy

ANNUAL EMISSION STATEMENT

FORM F PAGE 15 OF 27

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	063-04	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	063-05	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	063-06	1.3	347	5	TSP						E	.029	.005
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: .010 PER DAY, 2.6 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ✓ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIOI FROM THIS SOURC ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THI FORM IF CHECKED

INTERNAL REVENUE SERVICE COPIES 1500

PLANT ID 7017

COMPANY NAME Government Naval Air Engineering

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-01	0.1	26	5	TSP	018			99 %	4	2 E lb/hr	0.02	2.6E-4
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 2 PER DAY, 520 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	066-02	0.1	26	5	TSP	018			99 %	4	5 E lb/hr	0.05	6.5E-4
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 2 PER DAY, 520 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	066-03										E		
											E		
											E		

✓ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: ___ PER DAY, ___ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 781014

COMPANY NA Government

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANNUAL EMISSION STATEMENT

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-04										E		
											E		
✓ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: _____ PER DAY, _____ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-05										E		
											E		
✓ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: _____ PER DAY, _____ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-06	0.33	86.6	5	TSP	018			99	4	2 E lb/hr	0.02	8.6E-
											E		
___ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: 4 PER DAY, 1040 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I _____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMPANY NAME Government

ANNUAL EMISSIONS STATEMENT

FORM F PAGE 18 OF 24

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-07	0.33	86.6	5	TSP	018			99	4	2 E lb/hr	0.02	8.6E-4
											E		
___ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: 4 PER DAY, 1040 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	066-08	0.1	26	5	TSP	018			99	4	2 E lb/hr	0.02	2.6E-4
											E		
___ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: 2 PER DAY, 520 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	066-09	0.1	26	5	TSP	018			99	4	2 E lb/hr	0.02	2.6E-4
											E		
___ SOURCE DID NOT OPERATE IN 1993											E		

A. PROCESS RATE: 2 PER DAY, 520 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78114

COMPANY NA. 3 Government

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL ...

ANNUAL EMIS' N STATEMENT

FORM F - PROCESS AND EMISSION IN MATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	066-10	0.1	26	5	TSP	018			99	4	2 E lb/hr	0.02	2.6E-4
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 2 PER DAY, 520 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	010-03	4	208	1	TSP	018			99.9	3	E	7.4E-4	3.0E-7
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: ___ PER DAY, ___ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-01	4	1040	5	TSP	018			99	4	E	0.02	1.04E-
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____ (DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78

COMPANY NA. 3Government -

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMIS I STATEMENT

FORM F - PROCESS AND EMISSION IN .MATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	009-02	4	1040	5	TSP	018			99	4	E	0.02	1.04E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-03	4	1040	5	TSP	018			99	4	E	0.02	1.04E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-04	4	1040	5	TSP	018			99	4	E	0.02	1.04E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: ___ PER DAY, ___ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID. 78

COMPANY NA. S Government

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMISSIONS STATEMENT

FORM F PAGE 21 OF 24

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	009-05	4	1040	5	TSP	018			99	4	E	0.02	1.04E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES __ GALS __ TONS __ CF (CHECK ONE)

C. IS THIS __ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-06	6	1560	5	TSP	018			99	4	E	0.02	1.56E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 15 PER DAY, 3900 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES __ GALS __ TONS __ CF (CHECK ONE)

C. IS THIS __ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-07	4	1040	5	TSP				99	4	E	0.02	1.04E-2
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES __ GALS __ TONS __ CF (CHECK ONE)

C. IS THIS __ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ____

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 7[illegible]4

COMPANY NA[illegible] S Government

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ANNUAL EMI[illegible]N STATEMENT

FORM F - PROCESS AND EMISSION IN[illegible]MATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	009-08	4	1040	5	TSP				99	4	E	0.02	1.04E-[illegible]
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-09	4	1040	5	TSP				99	4	E	0.02	1.04E-[illegible]
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-10	6	1560	5	TSP				99	4	E	0.05	3.9E-[illegible]
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 15 PER DAY, 3900 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSION FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PLANT ID 78

COMPANY NAME Government

NEW JERSEY DEPARTMENT OF ENVI[illegible]MENTAL PROTECTION AND ENERGY
ANNUAL EMIS[illegible] STATEMENT

FORM F

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	071-01	24.0	6600	7.0	VOC	048	048		100	2	0 E	0	0
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 144.0 PER DAY, 52560 PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	A51-01	24.0	1032	7.0	VOC	048	048		100	2	0 E	0	0
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 842.4 PER DAY, 307476. PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ✓ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ✓ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	060-01	1	520	5	Pb	000	000	000		5	E	1.2E-5	3.1E-6
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 3 PER DAY, 780 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

PL D 78144 NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMPANY NAME S Government ANNUAL EMISSION STATEMENT

FORM F F 24 OF 24

FORM F - PROCESS AND EMISSION INFORMATION FOR OTHER PROCESS TYPES AND POLLUTANTS

PLEASE SEE INSTRUCTION BOOKLET (SECTION F) FOR INFORMATION ON FILLING OUT THIS FORM.

MISSION YEAR	SOURCE NO. (FROM FORM A)	OPERATING HOURS HR/DAY	HRS/YR	DAY/WEEK	POLLUTANT CATEGORY	CONTROL DEVICE CODES PRIM.	SEC.	TERT.	OVERALL EFFICIENCY	CALCULATION METHODOLOGY CODE	IF EMISSION FACTOR USED, PROVIDE FACTOR & UNITS	ACTUAL EMISSION LBS/HR	TONS/YR
93	009-11	4	1040	5	TSP				99	4	E	0.02	1.04E-[illegible]
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93	009-12	4	1040	5	TSP				99	4	E	0.02	1.04E-[illegible]
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: 10 PER DAY, 2600 PER YEAR

B. PROCESS RATE UNITS ARE ✓ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ✓ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

93											E		
											E		
											E		

___ SOURCE DID NOT OPERATE IN 1993

A. PROCESS RATE: ___ PER DAY, ___ PER YEAR

B. PROCESS RATE UNITS ARE ___ PIECES ___ GALS ___ TONS ___ CF (CHECK ONE)

C. IS THIS ___ RAW MATERIAL/INPUT OR ___ PRODUCT/OUTPUT (CHECK ONE)

CHECK IF EMISSIONS FROM THIS SOURCE ARE INCLUDED ON FORM I ___

(DO NOT INCLUDE EMISSIONS ON THIS FORM IF CHECKED)

NAVAL AIR WARFARE CENTER
AIRCRAFT DIVISION
LAKEHURST

ENVIRONMENTAL DATA CALL 33

ENVIROMENTAL COMPLIANCE PROJECTS

(Refer to Question 6a.)

ATTACHMENT 3

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST

ENVIRONMENTAL PROJECTS

FYRDATA2.XLS

O&M,N APPROPRIATION SITES/TASKS/AMOUNTS FY 1994

PCR FY 1994 POLLUTION CONTROL REPORTS AND ASBESTOS REMEDIATION

PCR NUMBER	CLASS	LOCATION	DESCRIPTION OF EFFORTS	STUDY	DESIGN	MAINT	MINOR CONSTR.	MAJOR REPAIR	TOTAL COST	DSN START	CON COMPLETE
NOSHA	1	NAWC LAKEHURST	ASBESTOS ABATEMENT REMOVAL/DISPOSAL		$4,000		$200,000		$204,000	10-93	2-95
NOSHA	1	NAWC LAKEHURST	ASBESTOS O&M INVENTORY	$175,000					$175,000	11-93	9-94
NOSHA	2	NAWC LAKEHURST	ASBESTOS ABATEMENT DECONTAMINATION TRAILER			$60,000			$60,000	NA	NA
A080G	2	NAWC LAKEHURST	CLEAN AIR ACT AMENDMENT STUDY	$250,000					$250,000	11-93	9-94
W484C	2	NAWC LAKEHURST	ILLICIT DISCHARGE VAR. FLOOR DRAINS (SHARED COST)		$8,000		$90,000		$98,000	12-93	1-95
PENDING	2	NAWC LAKEHURST	ILLICIT DISCHARGE BLDG. 15		$3,000		$30,000		$33,000	3-94	1-95
PENDING	2	NAWC LAKEHURST	ILLICIT DISCHARGE (SHARED COST)		$3,000		$30,000		$33,000	3-94	4-95
S081M	2	NAWC LAKEHURST	POLLUTION PREVENTION PLAN	$100,000					$100,000	11-93	9-94
PENDING	2	NAWC LAKEHURST	SPILL RESPONSE PLAN	$40,000					$40,000	11-93	9-94
A080N	2	NAWC LAKEHURST	TOTAL AIR EMISSIONS CALC & REDUCTION	$200,000					$200,000	11-93	9-94
PENDING	2	NAWC LAKEHURST	ILLICIT DISCHARGE-BLDG 88 CLEAN PAD				$15,000		$15,000	11-93	11-94
W378S	2	NAWC LAKEHURST	SPCC CONTAINMENT		$9,000		$78,000		$87,000	4-94	5-95
PENDING	2	NAWC LAKEHURST	BLDG 124 STEAM CLEANING PAD ROOF				$45,000		$45,000	1-94	4-95
PENDING	2	NAWC LAKEHURST	BLDG 124 SUMP SYSTEM UPGRADE				$45,000		$45,000	2-94	4-95
PENDING	2	NAWC LAKEHURST	HAZARDOUS WASTE SECONDARY CONTAINMENT ROOFS	$15,000			$120,000		$135,000	4-94	6-95
PENDING	2	NAWC LAKEHURST	LEAD PAINT REMOVAL EQUIP				$24,000		$24,000	NA	NA
PENDING	2	NAWC LAKEHURST	SPILL RESPONSE EQUIPMENT-				$32,000		$32,000	NA	NA
PENDING	2	NAWC LAKEHURST	TRAINING - ENVIRONMENTAL AWARENESS	$100,000					$100,000	"ANNUAL"	NA
S081F	2	NAWC LAKEHURST	UNDERGROUND STORAGE TANK REMEDIAL INVESTIGATION	$50,000					$50,000	2-94	9-94
			SUBTOTAL	$930,000	$25,000	$60,000	$709,000	$0	$1,724,000		
			QUARTERLY ALLOCATION POTENTIAL	1ST	2ND	3RD	4TH				
			FACTOR	35%	30%	25%	10%				
			CUMULATIVE	$603,400	$517,200	$431,000	$172,400		$1,724,000		
					$1,120,600	$1,551,600	$1,724,000				
			DOC # N0001994WXC8KAL								
			ACTUAL SENT	$550,000							
			CUMULATIVE		$550,000	$550,000	$550,000				

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

ATTACHMENT 3

FY 95 POLLUTION ABATEMENT PROJECT SUMMARY
NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION
LAKEHURST, NEW JERSEY

PROJECT TITLE	APPROPRIATION	CLASS	PCR #	DESIGN $K	CONSTR $K	DSN START	CON COMPLETE
1. CATAPULT PROCESS MODIFICATION	STUDY/DESIGN (O&MN)	TBD	W376T	$100	$100	11-94	6-95
2. STORM SEWER SYSTEM MODIFICATION	STUDY/DESIGN (O&MN)	TBD	TBD	$70	$50	12-94	8-95
3. RALS PROCESS MODIFICATION	STUDY/DESIGN (O&MN)	TBD	TBD	$90	$85	4-94	12-95
4. H/W SEPARATORS/RETN BASINS FOR IND. DISCH.	TBD	TBD	W484E	$100	$0	12-94	NA
5. STEAM RECYCLING SYSTEM, PP I	TBD	TBD	TBD	$40	$200	4-95	10-95
6. STEAM RECYCLING SYSTEM, PP II	TBD	TBD	TBD	$15	$200	4-95	10-95
7. ASBESTOS OP & MAINT INVENTORY	STUDY (O&MN)	TBD	TBD	$0	$175	11-94	7-95
8. ASBESTOS ABATEMENT (REMOVAL/DISPOSAL)	TBD	TBD	TBD	$10	$500	11-94	8-95
9. ASBESTOS ABATEMENT EQUIP. (NEGATIVE AIR)	TBD	TBD	TBD	$0	$100	NA	NA
10. RECYCLING; FLATBED TRUCK, TRAILER, F. LIFT	TBD	TBD	TBD	$0	$75	NA	NA
11. SAND BLAST MODIFICATIONS	TBD	II	A080I	$50	$0	1-95	NA
12. RADON ABATEMENT	TBD	II	A080L	$100	$0	5-95	NA
13. WETLANDS RESTORATION	TBD	TBD	TBD	$18	$30	4-95	4-96
14. REFORESTATION PROGRAM	TBD	TBD	TBD	$19	$50	11-94	7-97
15. TRAINING ENVIRONMENTAL AWARENS	TBD	TBD	TBD	$0	$100	"ANNUAL"	NA
16. PISTOL RANGE REMOVAL & REPLACEMENT	TBD	TBD	TBD	$30	$120	2-95	9-95
17. TRAP RANGE REMOVAL	TBD	TBD	TBD	$0	$50	2-95	7-95
18. POTABLE WATER BACKFLOW PREVENTION	TBD	TBD	TBD	$60	$0	4-95	NA
19. HAZMAT CONTAINMENT STORAGE FACILITY	TBD	TBD	TBD	$30	$300	11-94	10-95
20. STORM/WASTE WATER ASPHALT REDUCTION	TBD	TBD	TBD	$20	$50	4-95	10-96
21. DPCC COMPLIANCE TRANSMISSION PIPING	TBD	TBD	TBD	$80	$250	4-95	11-95
22. VEHICLE MODIFICATION	TBD	TBD	TBD	$0	$100	6-95	8-95
23. PROPANE GAS STATION	TBD	TBD	TBD	$20	$200	5-95	7-96
24. VAN POOL SUPPORT VEHICLE	TBD	TBD	TBD	$0	$60	NA	NA
			TOTALS	$852	$2,795		

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

FY 96 POLLUTION ABATEMENT PROJECT SUMMARY
NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION
LAKEHURST, NEW JERSEY

PROJECT TITLE	APPROPRIATION	CLASS	PCR #	DESIGN $K	CONSTR $K	DSN START	CON COMPLETE
1. TRUCK WASHRACK	TBD	TBD	TBD	$10	$110	11-95	10-96
2. SANITARY HOOK UP BLDG 571	TBD	TBD	TBD	$10	$150	11-95	7-96
3. SANITARY HOOK UP BLDGS 550 & 551	TBD	TBD	TBD	$20	$290	11-95	7-96
4. AQUATIC STUDY	STUDY (O&MN)	TBD	TBD	$0	$70	3-96	9-96
5. POTABLE WATER LEAD & COPPER TREAT.	TBD	TBD	TBD	$20	$34	11-95	9-96
6. AIR EMISSIONS VEHICLE CONTROLS	TBD	TBD	TBD	$250	$1,730	11-95	5-97
7. MANUFACTURING DEPT AIR EMISSION REDUCTION	TBD	TBD	A080H	$200	$0	3-96	9-97
8. SAND BLAST MODIFICATIONS	TBD	II	A080I	$0	$300	NA	8-96
9. ASBESTOS OP & MAINT INVENTORY	STUDY (O&MN)	TBD	TBD	$0	$150	11-95	7-96
10. ASBESTOS ABATEMENT (REMOVAL/DISPOSAL)	TBD	TBD	TBD	$10	$500	11-95	8-96
11. RECYCLING MAG CAN SEPARATOR/PAPER BALER	TBD	TBD	TBD	$0	$20	NA	NA
12. PROD. EVAL. DEPT AIR EMISSION REDUCTION	TBD	TBD	A080K	$180	$0	2-96	10-97
13. PAINT BOOTH MODIFICATIONS	TBD	II	A080J	$150	$0	3-96	11-97
14. RADON ABATEMENT	TBD	II	A080L	$0	$700	NA	7-96
15. COMPOST FACILITY	TBD	TBD	TBD	$20	$60	4-96	3-97
16. UST REMEDIAL INVESTIGATION	TBD	I	S081F	$0	$50	11-95	7-96
17. TRAINING ENVIRONMENTAL AWARENE	TBD	TBD	TBD	$0	$100	"ANNUAL"	NA
18. CATAPULT PROCESS MODIFICATION	TBD	TBD	W378T	$0	$900	NA	7-97
19. STORM SEWER SYSTEM MODIFICATION	TBD	TBD	TBD	$0	$400	NA	9-96
20. RALS PROCESS MODIFICATION	TBD	TBD	TBD	$0	$750	NA	9-96
21. AIR EMISSIONS POWER PLANTS	STUDY/DESIGN (O&MN)	TBD	TBD	$300	$200	4-96	9-96
22. AIR EMISSIONS INDUSTRIAL PROCESSES	STUDY/DESIGN (O&MN)	TBD	TBD	$200	$150	2-96	9-96
23. AIR EMISSIONS TEST FACILITIES	STUDY/DESIGN (O&MN)	TBD	TBD	$180	$130	11-95	9-96
24. H/W SEPARATORS/RETN BASINS FOR IND. DISCH.	TBD	TBD	W484E	$0	$1,000	NA	7-97
25. ARCHEOLOGICAL INVESTIGATION	STUDY (O&MN)	TBD	TBD	$0	$90	NA	7-97
			TOTALS	$1,550	$7,884		

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

FY 97 POLLUTION ABATEMENT PROJECT SUMMARY
NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION
LAKEHURST, NEW JERSEY

PROJECT TITLE	APPROPRIATION	CLASS	PCR #	DESIGN $K	CONSTR $K	DSN START	CON COMPLETE
1. CLOSED LOOP WATER SUPPLY; HILL SYSTEM	TBD	TBD	TBD	$50	$290	11-96	5-98
2. UPGRADE HILL STEAM HEATING SYSTEM	TBD	TBD	TBD	$10	$100	11-96	6-98
3. AIR EMISSIONS POWER PLANTS	TBD	TBD	TBD	$0	$2,000	NA	6-98
4. AIR EMISSIONS VEHICLE CONTROLS	TBD	TBD	TBD	$0	$1,700	NA	5-98
5. AIR EMISSIONS TEST FACILITIES	TBD	TBD	TBD	$0	$1,200	NA	5-98
6. AIR EMISSIONS INDUST. PROCESSES	TBD	TBD	TBD	$0	$1,500	NA	7-98
7. MANUFACTURING DEPT AIR EMISSION REDUCTION	TBD	TBD	A080H	$0	$1,500	NA	11-98
8. ASBESTOS OP & MAINT INVENTORY	STUDY (O&MN)	TBD	TBD	$0	$300	NA	9-97
9. ASBESTOS ABATEMENT (REMOVAL/DISPOSAL)	TBD	TBD	TBD	$10	$500	11-96	9-97
10. RECYCLING MAGN CAN SEPARATOR/PAPER BAILER	TBD	TBD	TBD	$0	$20	NA	NA
11. PROD EVAL DEPT AIR EMISSION REDUCTION	TBD	TBD	A080K	$0	$1,200	NA	5-98
12. PAINT BOOTH MODIFICATIONS	TBD	II	A080J	$0	$900	NA	5-98
13. TRAINING ENVIRONMENTAL AWARENE	TBD	TBD	TBD	$0	$100	NA	'ANNUAL'
			TOTALS	$70	$11,310		

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

FY 98 POLLUTION ABATEMENT PROJECT SUMMARY
NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION
LAKEHURST, NEW JERSEY

PROJECT TITLE	APPROPRIATION	CLASS	PCR #	DESIGN $K	CONSTR $K	DSN START	CON COMPLETE
1. VEHICLE MODIFICATION	TBD	TBD	TBD	$0	$100	NA	9-98
2. ASBESTOS ABATEMENT (REMOVAL/DISPOSAL)	TBD	TBD	TBD	$0	$500	NA	9-98
3. ASBESTOS OPERATION & MAINTENANCE PLAN	STUDY (O&MN)	TBD	TBD	$0	$300	NA	7-98
4. RECYCLING BLDG	TBD	TBD	TBD	$20	$150	11-97	5-99
5. RECYCLING PACKAGING EQUIPMENT CRANES	TBD	TBD	TBD	$0	$70	NA	NA
6. RECYCLING SEPARATION VEHICLE	TBD	TBD	TBD	$0	$50	NA	NA
7. RECYCLING INFO BROCHURES	TBD	TBD	TBD	$0	$50	NA	7-98
8. ODS; STORAGE AND OPERATING FACILITY	TBD	TBD	TBD	$20	$150	11-97	2-99
9. ENDANGERED SPECIES STUDY	STUDY (O&MN)	TBD	TBD	$0	$50	NA	9-98
10. TRAINING ENVIRONMENTAL AWARENE	TBD	TBD	TBD	$0	$100	NA	'ANNUAL'
11. ILLICIT DISCHARGES	TBD	TBD	TBD	$20	$100	11-97	12-98
12. POTABLE WATER	TBD	TBD	TBD	$10	$100	11-97	4-98
			TOTALS	$70	$1,720		

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

FY 99 POLLUTION ABATEMENT PROJECT SUMMARY
NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION
LAKEHURST, NEW JERSEY

PROJECT TITLE	APPROPRIATION	CLASS	PCP #	DESIGN $K	CONST $K	DSN START	CON COMPLETE
1. VEHICLE MODIFICATION	TBD	TBD	TBD	$0	$100	NA	9-99
2. ASBESTOS ABATEMENT (REMOVAL/DISPOSAL)	TBD	TBD	TBD	$0	$500	NA	9-99
3. ASBESTOS OPERATION & MAINTENANCE PLAN	STUDY (O&MN)	TBD	TBD	$0	$300	NA	9-99
4. REPLACEMENT OF CHLORINE DISINFECTANT	TBD	TBD	TBD	$0	$150	NA	8-99
5. VOLATILE ORGANIC TREATMENT; WWW	TBD	TBD	TBD	$20	$100	11-98	5-99
6. LIFT STATION RENOVATIONS	TBD	TBD	TBD	$50	$200	11-98	4-01
7. TRAINING ENVIRONMENTAL AWARENE	TBD	TBD	TBD	$0	$100	NA	"ANNUAL"
8. ILLICIT DISCHARGE	TBD	TBD	TBD	$20	$100	11-98	12-99
9. POTABLE WATER	TBD	TBD	TBD	$10	$100	11-98	9-99
			TOTALS	$100	$1,650		

Note: Design Start and Construction Completion dates are estimated based upon latest program submissions.

Document Separator

NAVAL AIR WARFARE CENTER
AIRCRAFT DIVISION
LAKEHURST

ENVIRONMENTAL DATA CALL 33

INSTALLATION RESTORATION PROJECTS

(Refer to Question 7b.)

ATTACHMENT 4

site #	type site	GW contami nated?	extends off-base?	Drinking water source?	cost to Complete ($M)/Est Compl Date	Status/ Comments
1	cercla	yes	no	no	$0.25/1999	long term monitoring
3	cercla	yes	no	no	$0.05/1996	RA
4	cercla	yes	no	yes	$0.6/2000	Long term mon
6	cercla	yes	no	no	$0.05/1996	RA
8	cercla	yes	no	yes	$0.6/2000	Long term mon
10	cercla	yes	no	no	$0.4/1999	RA
13	cercla	yes	no	no	$0.7/2005	RD
14	cercla	yes	no	no	$0.3/2000	RA/RD
16	cercla	yes	no	no	$1/2010	RA/RD
17	cercla	yes	no	no	$1/2000	RD
29	cercla	yes	no	no	$0.05/1996	RA
31	cercla	yes	yes	no	$0.6/2005	Long term mon
32	cercla	yes	no	no	$0.05/1996	RA
41	cercla	no	no	no	$0.3/2005	RD
42	cercla	yes	no	no	$0.2/2000	RA
43	cercla	no	no	no	$0.3/2000	RD
I&J GW	cercla	yes	yes	no	$12/2020	RD
A&B GW	cercla	yes	no	no	$5/2020	RA
C GW	cercla	yes	no	no	$5/2010	RA
E (28) GW	cercla	yes	no	no	$1/1999	RA
H (32) GW	cercla	yes	no	no	$3/2005	RA

bakup\table

COPIES 9493

Attachment 4

DATA CALL 33
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

31 May 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION PATUXENT RIVER, MD
Activity

NAVAL AIR WARFARE CENTER
AIRCRAFT DIVISION
DATA CALL # 33

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

G. H. Strohsahl, RADM, USN
NAME (Please type or print)

Signature

Commander
Title

6/7/94
Date

Naval Air Warfare Center
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. Bowes, VADM, USN
NAME (please type or print)

Signature

Commander
Title

24 JUN 94
Date

Naval Air Systems Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. GREENE, JR.
NAME (Please type or print)

Signature

ACTING
Title

06 JUN 1994
Date

DC #33

pg 5, 7, 8, 14, 15, 18

162

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

26 Sep 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/26/94
Date

DC # 33

DATA CALL 33
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

2 Sept 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ
Activity

Data Call 65

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D Strong
Signature

Commander
Title

10 August 1994
Date

Naval Air Warfare Center Aircraft Division, Lakehurst
Activity

162

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Activity Identification: Please complete the following table, identifying the activity for which this response is being submitted.

Activity Name:	**NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION/NAVAL AIR ENGINEERING STATION LAKEHURST**
UIC:	**N68335 AND N48558**
Major Claimant:	**NAVAL AIR SYSTEMS COMMAND**

General Instructions/Background:

Information requested in this data call is required for use by the Base Structure Evaluation Committee (BSEC), in concert with information from other data calls, to analyze both the impact that potential closure or realignment actions would have on a local community and the impact that relocations of personnel would have on communities surrounding receiving activities. In addition to Cost of Base Realignment Actions (COBRA) analyses which incorporate standard Department of the Navy (DON) average cost factors, the BSEC will also be conducting more sophisticated economic and community infrastructure analyses requiring more precise, activity-specific data. For example, activity-specific salary rates are required to reflect differences in salary costs for activities with large concentrations of scientists and engineers and to address geographic differences in wage grade salary rates.
Questions relating to "Community Infrastructure" are required to assist the BSEC in evaluating the ability of a community to absorb additional employees and functions as the result of relocation from a closing or realigning DON activity.

Due to the varied nature of potential sources which could be used to respond to the questions contained in this data call, a block appears after each question, requesting the identification of the source of data used to respond to the question. To complete this block, identify the source of the data provided, including the appropriate references for source documents, names and organizational titles of individuals providing information, etc. Completion of this "Source of Data" block is critical since some of the information requested may be available from a non-DoD source such as a published document from the local chamber of commerce, school board, etc. Certification of data obtained from a non-DoD source is then limited to certifying that the information contained in the data call response is an accurate and complete representation of the information obtained from the source. Records must be retained by the certifying official to clearly document the source of any non-DoD information submitted for this data call.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

General Instructions/Background (Continued):

The following notes are provided to further define terms and methodologies used in this data call. Please ensure that responses consistently follow this guidance:

Note 1: Throughout this data call, the term **"activity"** is used to refer to the DON installation that is the addressee for the data call.

Note 2: Periodically throughout this data call, questions will include the statement that the response should refer to the **"area defined in response to question 1.b., (page 3)"**. Recognizing that in some large metropolitan areas employee residences may be scattered among many counties or states, **the scope of the "area defined" may be limited to the sum of:**

- **those counties that contain government (DoD) housing units (as identified in 1.b.2)), and,**
- **those counties closest to the activity which, in the aggregate, include the residences of 80% or more of the activity's employees.**

Note 3: Responses to questions referring to **"civilians"** in this data call should reflect **federal civil service appropriated fund employees.**

1. Workforce Data

a. Average Federal Civilian Salary Rate. Provide the projected FY 1996 average gross annual appropriated fund civil service salary rate for the activity identified as the addressee in this data call. This rate should include all cash payments to employees, and exclude non-cash personnel benefits such as employer retirement contributions, payments to former employees, etc.

Average Appropriated Fund Civilian Salary Rate:	**$43,410**

Source of Data (1.a. Salary Rate): NAWCADLKE CP-2 EXHIBIT, FY96/ 1997 NAVCOMPT SUBMISSION

b. Location of Residence. Complete the following table to identify where employees live. Data should reflect current workforce.

1) Residency Table. Identify residency data, by county, for both military and civilian (civil service) employees working at the installation (including, for example, operational units that are homeported or stationed at the installation). For each county listed, also provide the estimated average distance from the activity, in miles, of employee residences and the estimated average length of time to commute one-way to work. For the purposes of displaying data in the table, any county(s) in which 1% or fewer of the activity's employees reside may be consolidated as a single line entry in the table, titled "Other".

County of Residence	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
OCEAN	NJ	210	1255	68	11	25
BURLINGTON	NJ	21	296	15	29	45
MONMOUTH	NJ	7	114	6	20	35
OTHER	NJ, PA	17	266	11	-	-

2165 = 100%

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

As discussed in Note 2 on Page 2, subsequent questions in the data call refer to the "area defined in response to question 1.b., (page 3)". In responding to these questions, the scope of the "area defined" may be limited to the sum of: a) those counties that contain government (DoD) housing units (as identified below), and, b) those counties closest to the activity which, in the aggregate, include the residences of 80% or more of the activity's employees.

2) Location of Government (DoD) Housing. If some employees of the base live in government housing, identify the county(s) where government housing is located:

Ocean County, NJ; Burlington County, NJ; Monmouth County, NJ.

Source of Data (1.b. 1) & 2) Residence Data): NJ Map; NAWCADLKE Recall Listing; NAWCADLKE Officer Social Roster; Defense Civilian Personnel Data System

c. Nearest Metropolitan Area(s). Identify all major metropolitan area(s) (i.e., population concentrations of 100,000 or more people) which are within 50 miles of the installation. If no major metropolitan area is within 50 miles of the base, then identify the nearest major metropolitan area(s) (100,000 or more people) and its distance(s) from the base.

City	County	Distance from base (miles)
New York - Newark - NY - NJ - PA PMSA	Ocean, Monmouth, Middlesex, Somerset, Hunterdon, Union, Richmond	Base is within PMSA
Philadelphia - PA - NJ PMSA	Burlington, Camden, Gloucester, Philadelphia, Bucks	44
Trenton NJ PMSA	Mercer	25
Atlantic - Cape May NJ PMSA	Atlantic	47

Source of Data (1.c. Metro Areas): Statistical Abstract of the United States, 1993: NJ Map (AAA)

d. Age of Civilian Workforce. Complete the following table, identifying the age of the activity's civil service workforce.

Age Category	Number of Employees	Percentage of Employees
16 - 19 Years	2	< 1
20 - 24 Years	32	2
25 - 34 Years	599	31
35 - 44 Years	542	28
45 - 54 Years	453	23
55 - 64 Years	277	14
65 or Older	26	1
TOTAL	1,931	100 %

Source of Data (1.d.) Age Data): Defense Civilian Personnel Data System as of 24 June 1994

e. Education Level of Civilian Workforce

1) Education Level Table. Complete the following table, identifying the education level of the activity's **civil service** workforce.

Last School Year Completed	Number of Employees	Percentage of Employees
8th Grade or less	4	<1
9th through 11th Grade	45	2
12th Grade or High School Equivalency	512	27
1-3 Years of College	555	28
4 Years of College (Bachelors Degree)	559	29
5 or More Years of College (Graduate Work)	256	13
TOTAL	1,931	100 %

2) Degrees Achieved. Complete the following table for the activity's civil service workforce. Identify the number of employees with each of the following degrees, etc. To avoid double counting, only identify the highest degree obtained by a worker (e.g., if an employee has both a Master's Degree and a Doctorate, only include the employee under the category "Doctorate").

Degree	Number of Civilian Employees
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	91
Associate Degree	81
Bachelor Degree	559
Masters Degree	245
Doctorate	11

Source of Data (1.e.1) and 2) Education Level Data): Defense Civilian Personnel Data System as of 24 June 94

f. Civilian Employment By Industry. Complete the following table to identify by "industry" the type of work performed by civil service employees at the activity. The intent of this table is to attempt to stratify the activity civilian workforce using the same categories of industries used to identify private sector employment. Employees should be categorized based on their primary duties. Additional information on categorization of private sector employment by industry can be found in the Office of Management and Budget Standard Industrial Classification (SIC) Manual. However, you do not need to obtain a copy of this publication to provide the data requested in this table.

Note the following specific guidance regarding the "Industry Type" codes in the first column of the table: Even though categories listed may not perfectly match the type of work performed by civilian employees, please attempt to assign each civilian employee to one of the "Industry Types" identified in the table. However, only use the Category 6, "Public Administration" sub-categories when none of the other categories apply. Retain supporting data used to construct this table at the activity-level, in case questions arise or additional information is required at some future time. **Leave shaded areas blank.**

Industry	SIC Codes	No. of Civilians	% of Civilians
1. Agriculture, Forestry & Fishing	01-09	**1**	**<1**
2. Construction (includes facility maintenance and repair)	15-17	**131**	**7**
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34	-	-
3b. Aircraft (includes engines and missiles)	3721 et al	-	-
3c. Ships	3731	-	-
3d. Other Transportation (includes ground vehicles)	various	-	-
3e. Other Manufacturing not included in 3a. through 3d.	various	**356**	**18**
Sub-Total 3a. through 3e.	20-39	**356**	**18**

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
4. Transportation/Communications/ Utilities	40-49		
4a. Railroad Transportation	40	-	-
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	**66**	**3**
4c. Water Transportation (includes organizational level maintenance)	44	-	-
4d. Air Transportation (includes organizational level maintenance)	45	-	-
4e. Other Transportation Services (includes organizational level maintenance)	47	**25**	**1**
4f. Communications	48	**8**	**< 1**
4g. Utilities	49	-	-
Sub-Total 4a. through 4g.	40-49	**99**	**5**
5. Services	70-89		
5a. Lodging Services	70	-	-
5b. Personal Services (includes laundry and funeral services)	72	-	-
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	**89**	**5**
5d. Automotive Repair and Services	75	**6**	**< 1**
5e. Other Misc. Repair Services	76	-	-
5f. Motion Pictures	78	-	-

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
5g. Amusement and Recreation Services	79	17	1
5h. Health Services	80	-	-
5i. Legal Services	81	3	<1
5j. Educational Services	82	13	1
5k. Social Services	83	7	<1
5l. Museums	84	-	-
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	801	42
5n. Other Misc. Services	89	-	-
Sub-Total 5a. through 5n.:	70-89	936	49
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91	306	16
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	81	4
6c. Public Finance	93	10	<1
6d. Environmental Quality and Housing Programs	95	11	1
Sub-Total 6a. through 6d.		408	20
TOTAL		1,931	100 %

Source of Data (1.f.) Classification By Industry Data): Defense Civilian Personnel Data System as of 24 June 1994

g. Civilian Employment by Occupation. Complete the following table to identify the types of "occupations" performed by **civil service** employees at the activity. Employees should be categorized based on their primary duties. Additional information on categorization of employment by occupation can be found in the Department of Labor Occupational Outlook Handbook. However, you do not need to obtain a copy of this publication to provide the data requested in this table.

Note the following specific guidance regarding the "Occupation Type" codes in the first column of the table: Even though categories listed may not perfectly match the type of work performed by civilian employees, please attempt to assign each civilian employee to one of the "Occupation Types" identified in the table. Refer to the descriptions immediately following this table for more information on the various occupational categories. Retain supporting data used to construct this table at the activity-level, in case questions arise or additional information is required at some future time. **Leave shaded areas blank.**

Occupation	Number of Civilian Employees	Percent of Civilian Employees
1. Executive, Administrative and Management	**247**	**13**
2. Professional Specialty		
2a. Engineers	**576**	**30**
2b. Architects and Surveyors	**3**	**< 1**
2c. Computer, Mathematical & Operations Research	**5**	**< 1**
2d. Life Scientists	**-**	**-**
2e. Physical Scientists	**1**	**< 1**
2f. Lawyers and Judges	**3**	**< 1**
2g. Social Scientists & Urban Planners	**5**	**< 1**
2h. Social & Recreation Workers	**6**	**< 1**
2i. Religious Workers	**-**	**-**
2j. Teachers, Librarians & Counselors	**3**	**< 1**

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Occupation	Number of Civilian Employees	Percent of Civilian Employees
2k. Health Diagnosing Practitioners (Doctors)	-	-
2l. Health Assessment & Treating(Nurses, Therapists, Pharmacists, Nutritionists, etc.)	-	-
2m. Communications	5	<1
2n. Visual Arts	12	<1
Sub-Total 2a. through 2n.:	**619**	**32**
3. Technicians and Related Support		
3a. Health Technologists and Technicians	-	-
3b. Other Technologists	378	19
Sub-Total 3a. and 3b.:	**378**	**19**
4. Administrative Support & Clerical	**233**	**12**
5. Services		
5a. Protective Services (includes guards, firefighters, police)	76	4
5b. Food Preparation & Service	-	-
5c. Dental/Medical Assistants/Aides	-	-
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	13	1
Sub-Total 5a. through 5d.	**89**	**5**
6. Agricultural, Forestry & Fishing	**1**	**<1**
7. Mechanics, Installers and Repairers	**108**	**6**

Occupation	Number of Civilian Employees	Percent of Civilian Employees
8. Construction Trades	63	3
9. Production Occupations	134	7
10. Transportation & Material Moving	42	2
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	12	<1
TOTAL	1,926 *	100 %

*** Total is different on Table g due to different data date. Per NAWCAD Headquarter's instruction to use 31 March 94 data if available. It was not available for the other tables.**

Source of Data (1.g.) Classification By Occupation Data): Defense Civilian Personnel Data System as of 31 March 94

Description of Occupational Categories used in Table 1.g. The following list identifies public and private sector occupations included in each of the major occupational categories used in the table. Refer to these examples as a guide in determining where to allocate **appropriated fund civil service jobs** at the activity.

1. Executive, Administrative and Management. Accountants and auditors; administrative services managers; budget analysts; construction and building inspectors; construction contractors and managers; cost estimators; education administrators; employment interviewers; engineering, science and data processing managers; financial managers; general managers and top executives; chief executives and legislators; health services managers; hotel managers and assistants; industrial production managers; inspectors and compliance officers, except construction; management analysts and consultants; marketing, advertising and public relations managers; personnel, training and labor relations specialists and managers; property and real estate managers; purchasing agents and managers; restaurant and food service managers; underwriters; wholesale and retail buyers and merchandise managers.

2. Professional Specialty. Use sub-headings provided.

3. Technicians and Related Support. Health Technologists and Technicians sub-category - self-explanatory. Other Technologists sub-category includes aircraft pilots; air traffic controllers; broadcast technicians; computer programmers; drafters; engineering technicians; library technicians; paralegals; science technicians; numerical control tool programmers.

4. Administrative Support & Clerical. Adjusters, investigators and collectors; bank tellers; clerical supervisors and managers; computer and peripheral equipment operators; credit clerks and authorizers; general office clerks; information clerks; mail clerks and messengers; material recording, scheduling, dispatching and distributing; postal clerks and mail carriers; records clerks; secretaries; stenographers and court reporters; teacher aides; telephone, telegraph and teletype operators; typists, word processors and data entry keyers.

5. Services. Use sub-headings provided.

6. Agricultural, Forestry & Fishing. Self explanatory.

7. Mechanics, Installers and Repairers. Aircraft mechanics and engine specialists; automotive body repairers; automotive mechanics; diesel mechanics; electronic equipment repairers; elevator installers and repairers; farm equipment mechanics; general maintenance mechanics; heating, air conditioning and refrigeration technicians; home appliance and power tool repairers, industrial machinery repairers; line installers and cable splicers; millwrights; mobile heavy equipment mechanics; motorcycle, boat and small engine mechanics; musical instrument repairers and tuners; vending machine servicers and repairers.

8. Construction Trades. Bricklayers and stonemasons; carpenters; carpet installers; concrete masons and terrazzo workers; drywall workers and lathers; electricians; glaziers; highway maintenance; insulation workers; painters and paperhangers; plasterers; plumbers and pipefitters; roofers; sheet metal workers; structural and reinforcing ironworkers; tilesetters.

9. Production Occupations. Assemblers; food processing occupations; inspectors, testers and graders; metalworking and plastics-working occupations; plant and systems operators, printing occupations; textile, apparel and furnishings occupations; woodworking occupations; miscellaneous production operations.

10. Transportation & Material Moving. Busdrivers; material moving equipment operators; rail transportation occupations; truckdrivers; water transportation occupations.

11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere). Entry level jobs not requiring significant training.

h. Employment of Military Spouses. Complete the following table to provide estimated information concerning **military spouses** who are also employed in the area defined in response to question 1.b., above. **Do not fill in shaded area.**

1. Percentage of Military Employees Who Are Married:	**68**
2. Percentage of Military Spouses Who Work Outside of the Home:	**64**
3. Break out of Spouses' Location of Employment (Total of rows 3a. through 3d. should equal 100% and reflect the number of spouses used in the calculation of the "Percentage of Spouses Who Work Outside of the Home".	
3a. Employed "On-Base" - Appropriated Fund:	**43**
3b. Employed "On-Base" - Non-Appropriated Fund:	**28**
3c. Employed "Off-Base" - Federal Employment:	**0**
3d. Employed "Off-Base" - Other Than Federal Employment	**29**

Based on a random sample survey of 22 married military members, including officers and enlisted. Of the 22, 14 of the spouses work outside of the home (64%).

Source of Data (1.h.) Spouse Employment Data): Officer Distribution Control Report (ODCR), 7 May 94; Enlisted Distribution and Verification Report (EDVR), 24 May 94

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

2. **Infrastructure Data.** For each element of community infrastructure identified in the two tables below, rate the community's ability to accommodate the relocation of additional functions and personnel to your activity. Please complete each of the three columns listed in the table, reflecting the impact of various levels of increase (20%, 50% and 100%) in the number of personnel working at the activity (and their associated families). In ranking each category, use one of the following three ratings:

A - Growth can be accommodated with little or no adverse impact to existing community infrastructure and at little or no additional expense.

B - Growth can be accommodated, but will require some investment to improve and/or expand existing community infrastructure.

C - Growth either cannot be accommodated due to physical/environmental limitations or would require substantial investment in community infrastructure improvements.

Table 2.a., "Local Communities": This first table refers to the local community (i.e., the community in which the base is located) and its ability to meet the increased requirements of the installation.

Table 2.b., "Economic Region": This second table asks for an assessment of the infrastructure of the economic region (those counties identified in response to question 1.b., (page 3) - taken in the aggregate) and its ability to meet the needs of additional employees and their families moving into the area.

For both tables, annotate with an asterisk (*) any categories which are wholly supported on-base, i.e., are not provided by the local community. These categories should also receive an A-B-C rating. Answers for these "wholly supported on-base" categories should refer to base infrastructure rather than community infrastructure.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

a. Table A: Ability of the local community to meet the expanded needs of the base.

1) Using the **A - B - C** rating system described above, complete the table below.

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	B	C
Schools - Private	N/A	N/A	N/A
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	N/A	N/A	N/A
Fire Protection	A	B	B
Police	A	A	A
Health Care Facilities	A	A	B
Utilities:			
Water Supply	A	A	B
Water Distribution	A	A	B
Energy Supply	A	B	B
Energy Distribution	A	B	B
Wastewater Collection	A	A	B
Wastewater Treatment	A	A	A
Storm Water Collection *	A	A	B
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	B
Recreational Activities	A	A	A

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Remember to mark with an asterisk any categories which are wholly supported on-base.

2) For each rating of "C" identified in the table on the preceding page, attach a brief narrative explanation of the types and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

a) The Borough of Lakehurst Elementary School rated "C" for a 100 % increase. However, this would depend significantly on the population profile of that increase: if mostly military families, the impact would surely result in a "C" rating; if mostly civilian personnel, the impact would be minimal and the school would not merit a "C" rating. Civilians would reside in a wide area surrounding the base with the resulting likelihood that very few additional children would attend Lakehurst Elementary School. This is based on the existing civilian base population profile and the broad geographic area in which they reside. Taking the scenario with the largest impact - an all military 100 % increase in population, the school would likely need to hire 15 to 20 additional teachers and an annual salary increase of approximately $800,000. Since the Lakehurst Elementary School once accommodated a military base population of the projected size, it is believed that existing facilities could accommodate the increase without the need for additional construction. If new construction was necessary, a building addition to the existing school on school-owned land would suffice.

b) Manchester Township High School would require an additional core facility to accommodate a 100% increase if that increase was mostly military. As is the case with the Lakehurst Elementary School, if the increase was mostly civilian, the dispersion of the increase over a relatively large geographic area would dilute any impact on the high school. However, if the 100% increase was primarily military, the impact would be substantial. In addition to a new core facility, the existing facility would require some upgrades (e.g. gym, cafeteria, auditorium) as well as the hiring of new teachers. The estimated cost would exceed $1 million.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (2.a. 1) & 2) - Local Community Table):

Off Base Housing - Ocean County Planning Board

Schools - Lakehurst Elementary School; Manchester Township High School

Public Transportation:

Roadways-Hagstrom Map of Ocean County;

Bus/Subway/Rail - Ocean County Handicap Elderly Transportation Services; NJ Transit

Fire Protection - Fire Chief, Lakehurst Borough; Fire Chief Manchester Township

Police - Chief of Detectives, Ocean County Prosecutor's Office; Chief of Police Lakehurst Borough

Health Care Facilities - Community Memorial Hospital; Brick Memorial Hospital, Kimball Medical Center

Utilities:

Water Supply - Water Allocation Diversion Permit No. 5366;

NAES Public Works Utilities Division;

NAES Public Works Environmental Branch Water Distribution - NAES Public Works Utilities Division;

NAES Public Works Environmental Branch Energy Supply - NAES Public Works Utilities Division Energy Distribution - NAES Public Works Utilities Division Wastewater Collection - NAES Public Works Utilities Division Wastewater Treatment - Ocean County Utilities Authority Storm Water Collection - NAES Public Works Environmental Branch;

NAES Public Works Utilities Division; NJ Pollutant Discharge Elimination System Permit NJ 0004642

Solid Waste Collection - Public Works Facility Support Contract N62472-91-D-5488

Hazardous/Toxic Waste Disposal-1993 Annual Hazardous Waste Report

Recreation Facilities - NAES MWR Department; Ocean County Recreation Director; Ocean County Clerk's Office

b. Table B: Ability of the region described in the response to question 1.b. (page 3) (taken in the aggregate) to meet the needs of additional employees and their families relocating into the area.

1) Using the **A - B - C** rating system described above, complete the table below.

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	B	B
Schools - Private	A	B	B
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	A	A	A
Fire Protection	A	A	B
Police	A	A	A
Health Care Facilities	A	B	B
Utilities:			
Water Supply	A	B	B
Water Distribution	A	B	B
Energy Supply	A	A	B
Energy Distribution	A	A	B
Wastewater Collection	A	A	B
Wastewater Treatment	A	A	A
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	B

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Recreation Facilities	A	A	A

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Remember to mark with an asterisk any categories which are wholly supported on-base.

2) For each rating of **"C"** identified in the table on the preceding page, attach a brief narrative explanation of the types and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

None

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (2.b. 1) & 2) - Regional Community Table):

Off Base Housing - Ocean County Planning Board;

Schools - Superintendent, Ocean County Board of Education;
Superintendent, Burlington County Board of Education;
Superintendent, Monmouth County Board of Education

Public Transportation:

Roadways - New Jersey Official Highway Map (See Data Call 1, Question 14)
Bus/Subway/Rail- New Jersey Transit

Fire Protection - Ocean County Fire Marshal; Burlington County Fire Marshal;
Monmouth County Fire Marshall

Police - Chief of Detectives, Ocean County Prosecutor's Office;
Burlington County Prosecutor's Office

Health Care Facilities-Community Memorial Hospital; Brick Memorial Hospital,
Kimball Medical Center

Utilities:

Water Supply - Manchester Municipal Utilities Authority

Water Distribution - Manchester Municipal Utilities Authority

Energy Supply - Ocean County Energy Council; Jersey Central Power & Light

Energy Distribution - Ocean County Energy Council; Jersey Central Power & Light

Wastewater Collection - Ocean County Utilities Authority

Wastewater Treatment - Ocean County Utilities Authority

Storm Water Collection - NAES Public Works Utilities Division

NAES Public Works PW Environmental Branch

Solid Waste Collection- Ocean County Dept. of Solid Waste Management

Hazardous/Toxic Waste Disposal-1993 Annual Hazardous Waste Report Recreation Facilities - Ocean County Clerk's Office; Jackson Recreation Dept; Point Pleasant Recreation Dept; Barnegat Township Recreation Dept; Stafford Township Recreation Dept; Berkley Township Recreation Dept; Ocean County Recreation Director; Monmouth County Parks Commission; Monmouth County Courts Office; Burlington County Office of Economic Development; Willingboro Recreation Department

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

3. Public Facilities Data:

a. **Off-Base Housing Availability.** For the counties identified in the response to question 1.b. (page 3), in the aggregate, estimate the current average vacancy rate for community housing. Use current data or information identified on the latest family housing market analysis. For each of the categories listed (rental units and units for sale), combine single family homes, condominiums, townhouses, mobile homes, etc., into a single rate:

Rental Units: **6.1%**

Units for Sale: **2.6%**

Source of Data (3.a. Off-Base Housing): Ocean County Planning Board; Burlington County Office of Land Use; Monmouth County Planning Office;

b. **Education.**

1) Information is required on the current capacity and enrollment levels of school systems serving employees of the activity. Information should be keyed to the counties identified in the response to question 1.b. (page 3).

School District	County	Number of Schools			Enrollment		Pupil-to-Teacher Ratio		Does School District Serve Gov't Housing Units? *
		Elementary	Middle	High	Current	Max. Cap.	Current	Max. Ratio	
VARIOUS	OCEAN	81	-	14	62,813	63,000	11:1	15:1	YES
VARIOUS	MON-MOUTH	114	22	25	85,297	86,000	14:1	20:1	YES
VARIOUS	BURLINGTON	106	-	14	61,644	62,000	13:1	17:1	YES

* Answer "yes" in this column if the school district in question enrolls students who reside in government housing

Source of Data (3.b.1) Education Table):Superintendent, Ocean County Board of Education; Superintendent, Burlington County Board of Education; Superintendent, Monmouth County Board of Education

2) Are there any on-base "Section 6" Schools? If so, identify number of schools and current enrollment.

No.

Source of Data (3.b.2) On-Base Schools): Not Applicable

3) For the counties identified in the response to question 1.b. (page 3), in the aggregate, list the names of undergraduate and graduate colleges and universities which offer certificates, Associate, Bachelor or Graduate degrees :

Ocean County College
Georgian Court College
Burlington County College
Monmouth College
Brookdale Community College

Source of Data (3.b.3) Colleges):Ocean County College; Georgian Court College; Burlington County College; Monmouth College; Brookdale Community College; Phone Directories

4) For the counties identified in the response to question 1.b. (page 3), in the aggregate, list the names and major curriculums of vocational/technical training schools:

Ocean County Vocational-Technical Schools- Agriculture, Business, Aviation, Practical Nursing, Special Education, Technical Education, Trade and Industrial Programs

Burlington County Institute of Technology- Auto Repair, Child Care, Machine Shop, Veterinary Assistant, Diesel Mechanic, Building Trades, Health Occupations, Auto Body, Cosmetology, Horticulture, Computer Data, Plumbing, Printing, Electronics, Advertising Art, Cabinet Making, HVAC, Clothing Fabrication, Environmental Studies, Business, Culinary Art, Drafting, Welding

Monmouth Technical College- Construction Trades, Service Trades, Trades and ImNustrial Programs, Technical Education, Special Education, Health Occupation Programs, Agriculture, Business, Aviation, Practical Nursing, Marine Academy of Science and Technology, Auto Repair, Cosmetology

Source of Data (3.b.4) Vo-tech Training): Ocean County Vocational; Burlington County Institute of Technology; Monmouth Technical College

c. **Transportation.**

1) Is the activity served by public transportation?

	Yes	No
Bus:		**Limited**
Rail:		**x**
Subway:		**x**
Ferry:		**x**

Source of Data (3.c.1) Transportation): Ocean County Handicapped and Elderly Transportation System

2) Identify the location of the nearest passenger railroad station (long distance rail service, not commuter service within a city) and the distance from the activity to the station.

Point Pleasant, NJ, 19 miles

Source of Data (3.c.2) Transportation): NJ Transit

3) Identify the name and location of the nearest commercial airport (with public carriers, e.g., USAIR, United, etc.) and the distance from the activity to the airport.

Newark International Airport, 62 miles

Source of Data (3.c.3) Transportation): Official Table of Distances, NAVSO P-2471

4) How many carriers are available at this airport?

19

Source of Data (3.c.4) Transportation): Newark International Airport

5) What is the Interstate route number and distance, in miles, from the activity to the nearest Interstate highway?

13 miles, - I-195

Source of Data (3.c.5) Transportation): Hagstrom Map of Ocean County

6) Access to Base:

a) Describe the quality and capacity of the road systems providing access to the base, specifically during peak periods. (Include both information on the area surrounding the base and information on access to the base, e.g., numbers of gates, congestion problems, etc.)

Access to NAWCAD Lakehurst is through 3 gates, with the main gate as the only 24 hour gate. The main and commercial gates which access the NAWCADLKE from Route 547 are the primary access to the station with the commercial gate for trucks and contractor vehicles. This allows for better access through the main gate during peak hours and thus reduces the possibility of congestion problems. The third gate (back gate) provides access from the off-station housing area and is not considered a primary access due to its transiting the housing area. Route 547, which provides the primary access, is a 2 lane roadway, expands to 4 lanes in the area of the main gate and connects to Route 70, the main east-west highway in the area. This intersection is controlled by a light. Since alternate work schedules have started and with improvements made since the 1988 Traffic Study there is no noticeable congestion either accessing or exiting from the surrounding roadways.

b) Do access roads transit residential neighborhoods?

Primary access does not transit residential neighborhoods. However, access through the back gate runs adjacent to Pinehurst Estates off-station housing area and is used by the housing residents during the hours which the gate is opened.

c) Are there any easements that preclude expansion of the access road system?

No. Route 547 runs through the eastern portion of the facility and there is nothing that would hinder expansion. Route 70 has started expansion into a 4 lane highway from the Garden State Parkway West through Lakehurst and Route 37 has expanded to 4 lanes from the Garden State Parkway West to Route 70.

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)?

No. There are no man-made barriers along any of the major access roads to the NAWCAD Lakehurst.

Source of Data (3.c.6) Transportation): Traffic study for NAEC Lakehurst of Sep 88 by JHK & Associates.

d. **Fire Protection/Hazardous Materials Incidents.** Does the activity have an agreement with the local community for fire protection or hazardous materials incidents? Explain the nature of the agreement and identify the provider of the service.

Yes. As provided in NAVFAC P-1021, Navy Shore Establishment Fire Protection/Prevention Program (NAVFACINST 11320.22 dtd 2 Mar 89). Mutual Aid Agreements signed with all local and state agencies as necessary.

Source of Data (3.d. Fire/Hazmat): Various Mutual Aid Agreements

e. **Police Protection.**

1) What is the level of legislative jurisdiction held by the installation?

Exclusive/proprietary jurisdiction.

2) If there is more than one level of legislative jurisdiction for installation property, provide a brief narrative description of the areas covered by each level of legislative jurisdiction and whether there are separate agreements for local law enforcement protection.

NAWCAD Lakehurst is an Exclusive Jurisdiction

The Pinehurst Estates is a 186 unit enlisted housing area situated off base but owned by NAWCAD Lakehurst (Navy) (Proprietary). No Official MOA for Pinehurst.

3) Does the activity have a specific written agreement with local law enforcement concerning the provision of local police protection?

No specific written agreement. The local law enforcement agency automatically provides police protection to the Pinehurst Estates area.

4) If agreements exist with more than one local law enforcement entity, provide a brief narrative description of whom the agreement is with and what services are covered.

None

5) If military law enforcement officials are routinely augmented by officials of other federal agencies (BLM, Forest Service, etc.), identify any written agreements covering such services and briefly describe the level of support received.

N/A

Source of Data (3.e. 1) - 5) - Police): Exclusive Jurisdiction is per NAS Lakehurst Legal Office Memo 25 Jul 1972, Jurisdiction of Lands.

f. **Utilities.**

1) Does the activity have an agreement with the local community for water, refuse disposal, power or any other utility requirements? Explain the nature of the agreement and identify the provider of the service.

The potable water supply and distribution systems at NAWCADLKE are composed of well fields with storage, treatment and distribution components which are independent from the local community. However, the off-base enlisted housing, Pinehurst Estates, has potable water supplied by the Lakehurst Borough Water Department. Usage is metered and billed monthly. Additionally, the depletion of the local aquifer is limited by Water Allocation Diversion Permit No. 5366 to 21 million Gallons per month at a rate no more than 2,860 gallons per minute.

Wastewater treatment is provided by the Ocean County Utilities Authority (OCUA), under the terms of the "Negotiated Sewage Disposal Service Contract". OCUA meters the flow and maintains the system outside of the center. The contract identifies the rates by which OCUA can bill for their service.

Electricity is supplied by Jersey Central Power & Light Company (JCP&L) under contract through Atlantic Division, Naval Facilities Engineering Command. High voltage (34.5 KV) is supplied to two stations at NAWCADLKE. The electrical distribution system on the base is owned and maintained by the government. The contract identifies the rates by which JCP&L can bill for this service.

A propane supply contract is activated each year to provide the center with propane deliveries and services. This is an open bid contract. The current contractor is Synergy Gas. The contractor retains ownership of the propane tanks and provides automatic deliveries to the base. He also provides new tanks and piping services to new facilities requiring propane. The annual propane rate per gallon is identified in the contract.

Natural gas is supplied by New Jersey Natural Gas Company (NJNG). It is under contract through Atlantic Division, Naval Facilities Engineering Command (Contracts were previously handled by the Northern Division). Thus far, NJNG has installed the gas mains at no cost to the government. NJNG owns and maintains the gas distribution system for the base up to the meter of each facility using natural gas. The contract identifies the government's responsibilities and the rates by which NJNG can bill for its service.

Solid Waste removal from the NAES is handled by contract with Consolidated Waste Services which then contracts with landfills to dispose of the waste.

2) Has the activity been subject to water rationing or interruption of delivery during the last five years? If so, identify time period during which rationing existed and the restrictions imposed. Were activity operations affected by these situations? If so, explain extent of impact.

There has been no water rationing on the base. However, the enlisted housing off-base which receives water from the Lakehurst borough is under water restriction during the months of May to September. During this period, lawn sprinkling is restricted to the hours of 7:00 a.m. to 9:00 a.m. and 7:00 p.m. to 9:00 p.m. only. Activity operations have not been affected by these situations.

3) Has the activity been subject to any other significant disruptions in utility service, e.g., electrical "brown outs", "rolling black outs", etc., during the last five years? If so, identify time period(s) covered and extent/nature of restrictions/disruption. Were activity operations affected by these situations? If so, explain extent of impact.

There have been no significant disruptions in utility service. However, NAWCADLKE is a voluntary participant in JCP&L's Curtailable Service Program in effect from June 1 through September 30. During this time period, between 15 and 25 curtailments can be requested by JCP&L. A credit is given to NAWCADLKE for each kilowatt reduced. An additional credit is paid if the reduction coincides with the highest hourly electrical system peak. The reduction is obtained by restricting the use of non-essential equipment and lighting. The equipment is selected as to not affect the base operations.

Source of Data (3.f. 1) - 3) Utilities): Utilities Systems Assessment (USA) report prepared by Northern Division, Naval Facilities Engineering Command; Water Allocation Diversion Permit No. 5366; Ocean County Utilities Authority (OCUA) "Negotiated Sewage Disposal Service Contract; Jersey Central Power & Light Company, Tariff for Electric Service, BRC No. 7 Electric; New Jersey Natural Gas Company, Tariff for Gas Service, BRC No. 7 - Gas; FSC contract N62472-91-D-5488; NAES Housing Office; Jersey Central Power & Light, Tariff for Electric Service, BRC No. 7 Electric

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

4. Business Profile. List the top ten employers in the geographic area defined by your response to question 1.b. (page 3), taken in the aggregate, (include your activity, if appropriate):

Employer	Product/Service	No. of Employees
1. AT&T Bell Labs	Telecommunications	8629
2. McGuire Air Force Base	Military	8184
3. Fort Monmouth	Military	7,800
4. Monmouth County	Government	4,355
5. Martin Marietta	Defense Contractor	3,000
6. Ocean County Mall	Retail	2,750
7. Jersey Shore Medical Center	Medical	2,710
8. Naval Air Engineering Station (including tenants)	Military	2,646
9. Monmouth Medical Center	Medical	2,614
10. Riverview Medical Center	Medical	2,260

Source of Data (4. Business Profile): Ocean County Office of Economic Development; Monmouth County Department of Economic Development; Burlington County Department of Economic Development

5. Other Socio-Economic Impacts. For each of the following areas, describe other recent (past 5 years), on-going or projected economic impacts (both positive and negative) on the geographic region defined by your response to question 1.b. (page 3), in the aggregate:

a. Loss of Major Employers:

Fort Dix reduced from 2,150 employees in 1993 to 1,004 in 1994. This reduction was offset, somewhat, by establishment of a federal prison at Fort Dix which has employed 301 since 1993.

b. Introduction of New Businesses/Technologies:

AT&T Bell Labs continues intensive research and development in the communications field. The pharmaceutical industry continues to grow.

c. Natural Disasters: **None**

d. Overall Economic Trends:

1) Clean ocean water and beaches during hot summers boosted tourism during 1993 and thus far in 1994.

2) Unemployment Data:

County	1992	1993
Ocean	8.5%	7.1%
Manmouth	7.5%	6.2%
Burlington	6.9%	5.9%

Source of Data (5. Other Socio/Econ): NJ Department of Labor; Fort Dix Public Affairs Office

6. Other. Identify any contributions of your activity to the local community not discussed elsewhere in this response.

NAWCADLKE conducts an Adopt-a-School program that serves as the benchmark for such activities in the Naval Air Systems Command. The program involves three schools: Lakehurst Elementary School; Manchester High School; and Ocean County Vocational Technical School. Each school has a signed Adopt-a-School agreement.

NAWCADLKE hosts the Vocational Industrial Clubs of America (VICA) Skill Olympics (a statewide competition) in cooperation with the NJ. State Department of Education and the Ocean County Vocational-Technical School. The state has named Lakehurst, which has hosted the event for four consecutive years, as the permanent home of the VICA competition.

NAWCADLKE worked closely with Ocean County and New Jersey state officials to clear the way for the Ocean County Vocational-Technical School to permanently relocate this Aviation curriculum to historical Hangar ONE aboard the base. Ocean County is funding $1.9 million in facility improvements to bring nearly 20,000 square feet of classrooms to N.J. Department of Education standards.

More than 100 vocational-technical students annually spend two or three half days each week for three months "job shadowing" welders, mechanics, electricians, pipefitters, computer aided design technicians, journalists, and engineers.

At risk students, identified by elementary school administrators and teachers, were eligible for the base's Mentoring Program which is a one-on-one program matching screened base employees and students. These seventh and eighth graders see firsthand the value of formal education as it applies to the real world of work experiences. The students are encouraged to make decisions, accept responsibility, and, most importantly, remain in school. These students are tracked to evaluate program success.

Manchester High School has a program called Work Achievement Values Education (WAVE) for at-risk ninth graders involving them with NAWCADLKE volunteers for one hour each week.

For the past four years, NAWCADLKE has hosted 20 Manchester High School students and their teachers for a four-week environmental project under a joint grant by the state and the RJR Nabisco Company. The program, Research Methods in Ecology and Environment, began with a quest for a State of New Jersey Governor's Grant for Excellence in Science and Mathematics. Essential to receiving the grant is the commitment of a fully implemented and staffed environmental program, such as exists at the base, as well as billeting and messing. An outgrowth of this program has been the establishment of a NAWCADLKE-founded weather station at the high school which is operated by the students.

Additionally, NAWCADLKE employees tutor Lakehurst Elementary students on a scheduled basis. Historic and technical tours are conducted for students from each adopted school. Engineers and technicians serve as science fair judges for adopted schools and for two nearby schools which conduct the largest science fair in the state.

Base employees talk on various subjects of personal interest and expertise at the Lakehurst Elementary School Reading Arts Day. Talks address traveling to distant lands, care of pets, rock collecting, photography, and crafts/handiwork, to name a few. Expanding the students' view of the world is the intent of this successful program.

Students at Manchester High School, tutored in physics by base employees, significantly increased their grades on standardized tests administered following the tutorial experience.

Finally, charitable efforts are substantial. In addition to the Combined Federal Campaign which is chaired by NAWCADLKE for Ocean County, the base provides new, wrapped holiday gifts to more than 200 Head Start children annually at an employee sponsored party. The presents are given to each child individually by Santa Claus. The Chaplain's Office provides food baskets to disadvantaged families for Thanksgiving. The Human Resources Office collects donations for the area food bank. NAWCADLKE contributes more blood to Ocean County's Red Cross blood bank than any other organization.

Source of Data (6. Other): NAES Public Affairs Office

DATA CALL 65
BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.
NEXT ECHELON LEVEL (if applicable)

WILLIAM E. NEWMAN
NAME (Please type or print)

Signature

COMMANDER
Title

~~7/18/94~~ 8/18/94 WEN
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.
NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.
MAJOR CLAIMANT LEVEL

WILLIAM C. BOWES
NAME (Please type or print)

Signature

COMMANDER
Title

19AUG94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.
DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

8/26/94
Date

162

DATA CALL 66
INSTALLATION RESOURCES

Activity Information:

Activity Name:	**NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION/NAVAL AIR ENGINEERING STATION LAKEHURST**
UIC:	**N68335 AND N48558**
Host Activity Name (if response is for a tenant activity):	**N/A**
Host Activity UIC:	**N/A**

General Instructions/Background. A separate response to this data call must be completed for each Department of the Navy (DON) host, independent and tenant activity which separately budgets BOS costs (regardless of appropriation), and, is located in the United States, its territories or possessions.

1. **Base Operating Support (BOS) Cost Data.** Data is required which captures the total annual cost of operating and maintaining Department of the Navy (DON) shore installations. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Two tables are provided. Table 1A identifies "Other than DBOF Overhead" BOS costs and Table 1B identifies "DBOF Overhead" BOS costs. These tables must be completed, as appropriate, for all DON host, independent or tenant activities which separately budget BOS costs (regardless of appropriation), and, are located in the United States, its territories or possessions. Responses for DBOF activities may need to include both Table 1A and 1B to ensure that all BOS costs, including those incurred by the activity in support of tenants, are identified. If both table 1A and 1B are submitted for a single DON activity, please ensure that no data is double counted (that is, included on both Table 1A and 1B). The following tables are designed to collect all BOS costs currently budgeted, regardless of appropriation, e.g., Operations and Maintenance, Research and Development, Military Personnel, etc. Data must reflect FY 1996 and should be reported in thousands of dollars.

a. **Table 1A - Base Operating Support Costs (Other Than DBOF Overhead).** This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional lines to the table (following line 2j., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

DATA CALL 66
INSTALLATION RESOURCES

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: NAWCAD LAKEHURST		UIC: N68335	
Category	FY 1996 BOS Costs ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	5,917	1,973	7,890
1b. Minor Construction	702	175	877
1c. Sub-total 1a. and 1b.	6,619	2,148	8,767
2. Other Base Operating Support Costs:			
2a. Utilities	2,054	0	2,054
2b. Transportation	0	0	0
2c. Environmental	736	764	1,500
*2d. Facility Leases	0	0	0
2e. Morale, Welfare & Recreation	529	711	1,240
2f. Bachelor Quarters	342	0	342
2g. Child Care Centers	865	553	1,418
2h. Family Service Centers	145	58	203
2i. Administration	5	132	137
2j. Other (Specify)			
Architectural & Engineering, Fire Protection, Food Services	0	2,368	2,368
2k. Sub-total 2a. through 2j:	4,676	4,586	9,262
3. Grand Total (sum of 1c. and 2k.):	11,295	6,734	18,029

*** Facility Leasing did not show on the BS-1 under leasing - but is included in 2j Other total.**

b. Funding Source. If data shown on Table 1A reflects more than one appropriation, then please provide a break out of the total shown for the "3. Grand-Total" line, by appropriation:

Appropriation	Amount ($000)

All O&MN.

c. Table 1B - Base Operating Support Costs (DBOF Overhead). This Table should be submitted for all current DBOF activities. Costs reported should reflect BOS costs supporting the DBOF activity itself (usually included in the G&A cost of the activity). For DBOF activities which are tenants on another installation, total cost of BOS incurred by the tenant activity for itself should be shown on this table. It is recognized that differences exist among DBOF activity groups regarding the costing of base operating support: some groups reflect all such costs only in general and administrative (G&A), while others spread them between G&A and production overhead. Regardless of the costing process, all such costs should be included on Table 1B. The Minor Construction portion of the FY 1996 capital budget should be included on the appropriate line. Military personnel costs (at civilian equivalency rates) should also be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Also ensure that there is no duplication between data provided on Table 1A. and 1B. These two tables must be mutually exclusive, since in those cases where both tables are submitted for an activity, the two tables will be added together to estimate total BOS costs at the activity. Add additional lines to the table (following line 2l., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Other Notes: All costs of operating the five Major Range Test Facility Bases at DBOF activities (even if direct RDT&E funded) should be included on Table 1B. Weapon Stations should include underutilized plant capacity costs as a DBOF overhead "BOS expense" on Table 1B..

Table 1B - Base Operating Support Costs (DBOF Overhead)

Activity Name: NAWCAD LAKEHURST		UIC: N68335	
Category	**FY 1996 Net Cost From UC/FUND-4 ($000)**		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (>$25K)	3,126	290	3,416
1b. Real Property Maintenance (<$25K)	596	790	1,386
1c. Minor Construction (Expensed)	92	57	149
1d. Minor Construction (Capital Budget)	[300]	0	[300] *
1c. Sub-total 1a. through 1d.	3,814	1,137	4,951
2. Other Base Operating Support Costs:			
2a. Command Office	466	830	1,296
2b. ADP Support	446	3,586	4,032
2c. Equipment Maintenance	133	189	322
2d. Civilian Personnel Services	2,556	0	2,556
2e. Accounting/Finance	128	1,322	1,450
2f. Utilities	113	550	663
2g. Environmental Compliance	356	370	726
2h. Police and Fire	1,128	2,336	3,464
2i. Safety	102	300	402
2j. Supply and Storage Operations	820	2,893	3,713
2k. Major Range Test Facility Base Costs	0	0	0
2l. Other (Specify) *			
Communications	1,064	0	1,064
Public Works	1,317	5,944	7,261
Corporate Management	0	634	634
Business Management	469	1,136	1,605
General Center Support	141	199	340
Military	973	0	973
Printing & Duplication	568	0	568
Audiovisual	682	0	682
NAWC Headquarters Costs	237	0	237
Travel & Training	581	604	1,185
Janitorial	522	0	522
2m. Sub-total 2a. through 2l:	12,802	20,893	33,695
3. Depreciation	2,500	0	2,500
4. Grand Total (sum of 1c., 2m., and 3.):	19,116	22,030	41,146

***Non-Add since it represents obligational authority in the CPP budget and the expenses for Capital Budget purchases are covered by item 3. Depreciation.**

2. **Services/Supplies Cost Data.** The purpose of Table 2 is to provide information about projected **FY 1996** costs for the purchase of services and supplies by the activity. **(Note: Unlike Question 1 and Tables 1A and 1B, above, this question is not limited to overhead costs.)** The source for this information, where possible, should be either the NAVCOMPT OP-32 Budget Exhibit for O&M activities or the NAVCOMPT UC/FUND-1/IF-4 exhibit for DBOF activities. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Break out cost data by the major sub-headings identified on the OP-32 or UC/FUND-1/IF-4 exhibit, disregarding the sub-headings on the exhibit which apply to civilian and military salary costs and depreciation. Please note that while the OP-32 exhibit aggregates information by budget activity, this data call requests OP-32 data for the activity responding to the data call. Refer to NAVCOMPTINST 7102.2B of 23 April 1990, Subj: Guidance for the Preparation, Submission and Review of the Department of the Navy (DON) Budget Estimates (DON Budget Guidance Manual) with Changes 1 and 2 for more information on categories of costs identified. Any rows that do not apply to your activity may be left blank. However, totals reported should reflect all costs, exclusive of salary and depreciation.

Table 2 - Services/Supplies Cost Data

Activity Name: **NAWCAD LAKEHURST**	**UIC: N68335**
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	**5,438**
Material and Supplies (including equipment):	**17,027**
Industrial Fund Purchases (other DBOF purchases):	**1,168**
Transportation:	**178**
Other Purchases (Contract support, etc.):	**54,210**
Total:	**78,021**

NOTE: Total ties to Lakehurst's IF-4 submission as follows:

IF4 Total Costs		**190,278**
Less: Civ Pers		**106,809**
Mil Pers		**2,948**
Depreciation	**2,500**	

Total	**78,021**

3. Contractor Workyears.

a. On-Base Contract Workyear Table. Provide a projected estimate of the number of contract workyears expected to be **performed "on base"** in support of the installation during FY 1996. Information should represent an annual estimate on a full-time equivalency basis. Several categories of contract support have been identified in the table below. While some of the categories are self-explanatory, please note that the category "mission support" entails management support, labor service and other mission support contracting efforts, e.g., aircraft maintenance, RDT&E support, technical services in support of aircraft and ships, etc.

Table 3 - Contract Workyears

Activity Name: **NAWCAD LAKEHURST**	**UIC: N68335**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	**100**
Facilities Support:	**67**
Mission Support:	**93**
Procurement:	**0**
Other:*	**0**
Total Workyears:	**260**

* Note: Provide a brief narrative description of the type(s) of contracts, if any, included under the "Other" category.

Mission Support: WY's in support of O/H functions.

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)):

0 WYs

2) Estimated number of workyears which would be eliminated:

242 WYs

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area):

18 WYs (residual PW impact for facilities maintenance)

c. **"Off-Base" Contract Workyear Data.** Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

No. of Additional Contract Workyears Which Would Be Eliminated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0	**N/A**

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
180	**Logistics Support (53 WYs), Engineering Support (127 WYs)**

DATA CALL 66
NAWCAD
LAKEHURST

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

W. E. NEWMAN, RADM, USN
NAME (Please type or print)

COMMANDER
Title

NAVAL AIR WARFARE CENTER
Activity

Signature

~~7/18/94~~ WEN
Date 8/24/94

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Title

Activity

Signature

Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

COMMANDER
Title

NAVAL AIR SYSTEMS COMMAND
Activity

Signature

24 AUG 94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Title

Signature

9/1/94
Date

DATA CALL 66
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D Strong
Signature

COMMANDER
Title

11 July 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION ~~PATUXENT RIVER, MD~~
Activity

VBC 8/23/94
NAWC-21D

DATA CALL 66
INSTALLATION RESOURCES

Activity Information:

Activity Name:	NTCC LAKEHURST
UIC:	N33241
Host Activity Name (if response is for a tenant activity):	NAVAL AIR WARFARE CENTER, AIRCRAFT DIVISION LAKEHURST, NJ
Host Activity UIC:	N68335

General Instructions/Background. A separate response to this data call must be completed for each Department of the Navy (DON) host, independent and tenant activity which separately budgets BOS costs (regardless of appropriation), and, is located in the United States, its territories or possessions.

1. **Base Operating Support (BOS) Cost Data.** Data is required which captures the total annual cost of operating and maintaining Department of the Navy (DON) shore installations. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Two tables are provided. Table 1A identifies "Other than DBOF Overhead" BOS costs and Table 1B identifies "DBOF Overhead" BOS costs. These tables must be completed, as appropriate, for all DON host, independent or tenant activities which separately budget BOS costs (regardless of appropriation), and, are located in the United States, its territories or possessions. Responses for DBOF activities may need to include both Table 1A and 1B to ensure that all BOS costs, including those incurred by the activity in support of tenants, are identified. If both table 1A and 1B are submitted for a single DON activity, please ensure that no data is double counted (that is, included on both Table 1A and 1B). The following tables are designed to collect all BOS costs currently budgeted, regardless of appropriation, e.g., Operations and Maintenance, Research and Development, Military Personnel, etc. Data must reflect FY 1996 and should be reported in thousands of dollars.

a. **Table 1A - Base Operating Support Costs (Other Than DBOF Overhead).** This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional

lines to the table (following line 2j., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: NTCC LAKEHURST		**UIC:** N33241	
Category	**FY 1996 BOS Costs ($000)**		
	Non-Labor	**Labor**	**Total**
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	0	0	0
1b. Minor Construction	0	0	0
1c. Sub-total 1a. and 1b.	0	0	0
2. Other Base Operating Support Costs:			
2a. Utilities	12	0	12
2b. Transportation	1	0	1
2c. Environmental	0	0	0
2d. Facility Leases	0	0	0
2e. Morale, Welfare & Recreation	0	0	0
2f. Bachelor Quarters	0	0	0
2g. Child Care Centers	0	0	0
2h. Family Service Centers	0	0	0
2i. Administration	0	0	0
2j. Other (Specify) Telephones	6	0	6
2k. Sub-total 2a. through 2j:	19	0	19
3. Grand Total (sum of 1c. and 2k.):	19	0	19

b. Funding Source. If data shown on Table 1A reflects more than one appropriation, then please provide a break out of the total shown for the "3. Grand-Total" line, by appropriation: N/A

Appropriation	Amount ($000)

c. Table 1B - Base Operating Support Costs (DBOF Overhead). This Table should be submitted for all current DBOF activities. Costs reported should reflect BOS costs supporting the DBOF activity itself (usually included in the G&A cost of the activity). For DBOF activities which are tenants on another installation, total cost of BOS incurred by the tenant activity for itself should be shown on this table. It is recognized that differences exist among DBOF activity groups regarding the costing of base operating support: some groups reflect all such costs only in general and administrative (G&A), while others spread them between G&A and production overhead. Regardless of the costing process, all such costs should be included on Table 1B. The Minor Construction portion of the FY 1996 capital budget should be included on the appropriate line. Military personnel costs (at civilian equivalency rates) should also be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Also ensure that there is no duplication between data provided on Table 1A. and 1B. These two tables must be mutually exclusive, since in those cases where both tables are submitted for an activity, the two tables will be added together to estimate total BOS costs at the activity. Add additional lines to the table (following line 21., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Other Notes: All costs of operating the five Major Range Test Facility Bases at DBOF activities (even if direct RDT&E funded) should be included on Table 1B. Weapon Stations should include underutilized plant capacity costs as a DBOF overhead "BOS expense" on Table 1B..

DATA CALL 66
INSTALLATION RESOURCES

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: NTCC LAKEHURST		UIC: N33241	
Category	FY 1996 Net Cost From UC/FUND-4 ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (>$15K)	0	0	0
1b. Real Property Maintenance (<$15K)	0	0	0
1c. Minor Construction (Expensed)	0	0	0
1d. Minor Construction (Capital Budget)	0	0	0
1e. Sub-total 1a. through 1d.	0	0	0
2. Other Base Operating Support Costs:			
2a. Command Office	0	0	0
2b. ADP Support	0	0	0
2c. Equipment Maintenance	0	0	0
2d. Civilian Personnel Services	0	0	0
2e. Accounting/Finance	0	0	0
2f. Utilities	0	0	0
2g. Environmental Compliance	0	0	0
2h. Police and Fire	0	0	0
2i. Safety	0	0	0
2j. Supply and Storage Operations	0	0	0
2k. Major Range Test Facility Base Costs	0	0	0
2l. Other (Specify)	0	0	0
2m. Sub-total 2a. through 2l:	0	0	0
3. Depreciation	0	0	0
4. Grand Total (sum of 1e., 2m., and 3.) :	0	0	0

2. Services/Supplies Cost Data. The purpose of Table 2 is to provide information about projected **FY 1996** costs for the purchase of services and supplies by the activity. **(Note: Unlike Question 1 and Tables 1A and 1B, above, this question is not limited to overhead costs.)** The source for this information, where possible, should be either the NAVCOMPT OP-32 Budget Exhibit for O&M activities or the NAVCOMPT UC/FUND-1/IF-4 exhibit for DBOF activities. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Break out cost data by the major sub-headings identified on the OP-32 or UC/FUND-1/IF-4 exhibit, disregarding the sub-headings on the exhibit which apply to civilian and military salary costs and depreciation. Please note that while the OP-32 exhibit aggregates information by budget activity, this data call requests OP-32 data for the activity responding to the data call. Refer to NAVCOMPTINST 7102.2B of 23 April 1990, Subj: Guidance for the Preparation, Submission and Review of the Department of the Navy (DON) Budget Estimates (DON Budget Guidance Manual) with Changes 1 and 2 for more information on categories of costs identified. Any rows that do not apply to your activity may be left blank. However, totals reported should reflect all costs, exclusive of salary and depreciation.

Table 2 - Services/Supplies Cost Data

Activity Name: NTCC LAKEHURST	**UIC: N33241**
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	0
Material and Supplies (including equipment):	10
Industrial Fund Purchases (other DBOF purchases):	0
Transportation:	0
Other Purchases (Contract support, etc.):	8
Total:	18

3. Contractor Workyears.

a. On-Base Contract Workyear Table. Provide a projected estimate of the number of contract workyears expected to be performed "on base" in support of the installation during FY 1996. Information should represent an annual estimate on a full-time equivalency basis. Several categories of contract support have been identified in the table below. While some of the categories are self-explanatory, please note that the category "mission support" entails management support, labor service and other mission support contracting efforts, e.g., aircraft maintenance, RDT&E support, technical services in support of aircraft and ships, etc.

Table 3 - Contract Workyears	
Activity Name: NTCC LAKEHURST	**UIC:** N33241
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	0
Procurement:	0
Other:*	0
Total Workyears:	0

*** Note:** Provide a brief narrative description of the type(s) of contracts, if any, included under the "Other" category.

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the on-base contract workyears identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)):

NONE.

2) Estimated number of workyears which would be eliminated:

NONE.

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area):

NONE.

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above):**

No. of Additional Contract Workyears Which Would Be Eliminated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0	

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0	

INSTALLATION RESOURCES, DATA CALL 66 for COMNAVCOMTELCOM

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print) _____ Signature _____

Title _____ Date _____

Activity _____

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

(Please type or print) _____ Signature _____ Name

Title _____ Date _____

Activity _____

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

T. A. STARK
Name (Please type or print)

T. A. Stark
Signature

Commander,
Title

25 Aug 1994
Date

Naval Computer and Telecommunications Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

W A Earner
Signature

Title _____

9/6/94
Date

Enclosure (2)

DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:	**LAKEHURST NJ NAWC ACFTDIV**
Unit Identification Code (UIC):	**N68335** #162
Major Claimant:	**NAVAIR**

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
1996	234	CHILD DEVELOPMENT CENTER	MCON	1,580
		Sub-Total - 1996		**1,580**
		Grand Total		**1,580**

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. E. BUFFINGTON, RADM, CEC, USN
NAME (Please type or print)

Signature

COMMANDER
Title

7/13/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

2/18/94
Date

BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MARK E. DONALDSON
NAME (Please type or print)

Signature

CDR, CEC, USN
Title

12 July 1994
Date

MILCON PROGRAMMING DIVISION
Division

FACILITIES PROGRAMMING AND CONSTRUCTION DIRECTORATE
Department

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Enclosure (1)

BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE

Information on cost avoidance which could be realized as the result of cancellation of on-going or programmed construction projects is provided in Tables 1 (MILCON) and 2 (FAMILY HOUSING). These tables list MILCON/FAMILY HOUSING projects which fall within the following categories:

1. all programmed construction projects included in the FY1996 - 2001 MILCON/FAMILY HOUSING Project List,

2. all programmed projects from FY1995 or earlier for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995, and,

3. all programmed BRAC MILCON/FAMILY HOUSING projects for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995.

Projects listed in Tables 1 and 2 with potential cost avoidance were determined as meeting any one of the following criteria:

Projects with projected Work in Place (WIP) less than 75% of the Current Working Estimate (CWE) as of 1 OCT 1995 .

Projects with projected completion dates or Beneficial Occupancy Dates subsequent to 31 March 1996.

Projects with projected CWE amount greater than $15M.

The estimated cost avoidance for projects terminated after construction award would be approximately one-half of the CWE for the remaining work. Close-out, claims and other termination costs can consume the other half.

162 R

DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:	**LAKEHURST NJ NAWC ACFTDIV**
Unit Identification Code (UIC):	**N68335**
Major Claimant:	**NAVAIR**

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
1994	232S	BUILDING ALTERATIONS	BRAC	1,770
		Sub-Total - 1994		**1,770**
1995	211	POTABLE WATER DISTRIBUTION SYSTEM ADDN	MCON	2,950
		Sub-Total - 1995		**2,950**
1996	234	CHILD DEVELOPMENT CENTER	MCON	1,700
		Sub-Total - 1996		**1,700**
		Grand Total		**6,420**

BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL D. THORNTON
NAME (Please type or print)

Signature

CDR, CEC, USN
Title

9 Dec 94
Date

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

J. E. BUFFINGTON, RADM, CEC, USN
NAME (Please type or print)

Signature

COMMANDER
Title

12/9/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

12/9/94
Date

DATA CALL 1: GENERAL INSTALLATION INFORMATION

1. ACTIVITY: Follow example as provided in the table below (*delete the examples when providing your input*). If any of the questions have multiple responses, please provide all. If any of the information requested is subject to change between now and the end of Fiscal Year (FY) 1995 due to known redesignations, realignments/closures or other action, provide current and projected data and so annotate.

° Name

Official name	**Naval Air Warfare Center, Aircraft Division, Lakehurst, NJ**
Acronym(s) used in correspondence	**NAVAIRWARCENACDIV Lakehurst**
Commonly accepted short title(s)	**NAWCAD Lakehurst**

° Complete Mailing Address

Commander
Naval Air Warfare Center
Hwy. 547
Lakehurst, NJ 08733-5000

° PLAD

NAVAIRWARCENACDIV Lakehurst NJ

° PRIMARY UIC: N68335 (Plant Account UIC for Plant Account Holders)
Enter this number as the Activity identifier at the top of each Data Call response page.

° ALL OTHER UIC(s):	PURPOSE:
N48558	**Base Operating Support Provided by Naval Air Engineering Station**
N60667	**Retail Sales Provided by Navy Exchange**

2. PLANT ACCOUNT HOLDER:

° Yes X No ____ (check one)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

3. ACTIVITY TYPE: Choose most appropriate type that describes your activity and completely answer all questions.

° HOST COMMAND: A host command is an activity that provides facilities for its own functions and the functions of other (tenant) activities. A host has accountability for Class 1 (land), and/or Class 2 (buildings, structures, and utilities) property, regardless of occupancy. It can also be a tenant at other host activities.

· Yes __X__ No ___ (check one)

° TENANT COMMAND: A tenant command is an activity or unit that occupies facilities for which another activity (i.e., the host) has accountability. A tenant may have several hosts, although one is usually designated its primary host. If answer is "Yes," provide best known information for your primary host only.

· Yes ___ No __X__ (check one)

· Primary Host (current) UIC:

· Primary Host (as of 01 Oct 1995) UIC:

· Primary Host (as of 01 Oct 2001) UIC:

° INDEPENDENT ACTIVITY: For the purposes of this Data Call, this is the "catch-all" designator, and is defined as any activity not previously identified as a host or a tenant. The activity may occupy owned or leased space. Government Owned/Contractor Operated facilities should be included in this designation if not covered elsewhere.

· Yes ___ No __X__ (check one)

4. SPECIAL AREAS: List all Special Areas. Special Areas are defined as Class 1/Class 2 property for which your command has responsibility that is not located on or contiguous to main complex.

Name	Location	UIC
APARTMENTS	**ARLINGTON, VA**	**N/A**
PINEHURST ESTATES	**LAKEHURST, NJ**	**N/A**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

5. DETACHMENTS: If your activity has detachments at other locations, please list them in the table below.

Name	UIC	Location	Host name	Host UIC
NAWC AD DET FTS	N68335	Alameda, CA	NAS, Alameda	N00236
NAWC AD DET GSE	N68335	Bethpage, LI, NY	Grumman Aerospace Corp	N/A
NAWC AD DET FTS	N68335	Bremerton, WA	Puget Sound Naval Shipyard	N00251
NAWC AD DET FTS	N68335	Cherry Point, NC	Marine Corps Air Station	N00146
NAWC AD DET GSE	N68335	Daytona Beach, FL	Martin Marietta Corp	N/A
NAWC AD DET GSE	N68335	FT Worth, TX	Bell Helicopter	N/A
NAWC AD DET FTS	N68335	Mayport, FL	Naval Air Station	N68709
NAWC AD DET FTS	N68335	Norfolk, VA	Naval Air Station	N00188
NAWC AD DET FTS	N68335	Oahu, HI	Camp Smith HI	N00318
NAWC AD DET GSE	N68335	St. Louis, MO	McDonnell Aircraft Company	N/A
NAWC AD DET FTS	N68335	San Diego, CA	Naval Air Station North Island	N00246
NAWC AD DET FTS	N68335	Santa Ana, CA	Marine Corps Air Station El Toro	N60050
NAWC AD DET GSE	N68335	Owego, NY	IBM Corp	N/A
NAWC AD DET FTS	N68335	Iwakuni, Japan	Marine Corps Air Station	N62613
NAWC AD DET FTS	N68335	Yokosuka, JA	Naval Ship Repair Facility	N62758
NAWC AD DET FTS	N68335	Norfolk, VA	Naval Base	N61466
NAWC AD DET FTS	N68335	Charleston, SC	Naval Base	N61466
NAWC AD DET FTS	N68335	Pascagoula, MS	SupShip	N62795
NAWC AD DET FTS	N68335	Mayport, FL	Naval Air Station	N35323
NAWC AD DET FTS	N68335	Norfolk, VA	Naval Air Station	N53825
NAWC AD DET FTS	N68335	San Diego, CA	Naval Air Station North Island	N53824
NAWC AD DET FTS	N68335	San Diego, CA	Naval Station 32nd Street	N00245
NAWC AD DET FTS	N68335	Pearl Harbor, HI	COMNAVSURF-GRUMIDPAC	N47242

FOR OFFICIAL USE ONLY
PRE-DECISIONAL INFORMATION

NAWC AD DET FTS	N68335	Long Beach, CA	SIMA	N87881
NAWC AD DET FTS	N68335	Oakland, CA	COMLOGGRU-ONE	N55271
NAWC AD DET FTS	N68335	Norfolk, VA	COMNAVAIR-LANT	N57012
NAWC AD DET FTS	N68335	Portsmouth, VA	Norfolk Naval Shipyard	N00181
NAWC AD DET FTS	N68335	Newport News, VA	SUPSHIP Newport News VA	N62793
NAWC AD DET FTS	N68335	Philadelphia, PA	Phil Naval Shipyard	N00151
NAWC AD DET FTS	N68335	San Diego, CA	COMNAVAIRPAC	N57025
NAWC AD DET FTS	N68335	29 Palms, CA	Marine Corps Air/ground Combat Control	N67399
NAWC AD DET FTS	N68335	Futenma, Ryukyu Island	Marine Corps Air Station	N63026

FTS= Fleet Technical Services GSE= Ground Support Equipment

6. BRAC IMPACT: Were you affected by previous Base Closure and Realignment decisions (BRAC-88, -91, and/or -93)? If so, please provide a brief narrative.

BRAC 88-N/A

BRAC 91-Realigned: The Naval Air Engineering Center was realigned to Naval Air Warfare Center Aircraft Division, Lakehurst. The Naval Air Engineering Station was established to provide base support services. The Naval Air Engineering Service Unit, Phila. was moved to Lakehurst as a tenant. Two (2) employees relocated from Philadelphia Naval Shipyard.

BRAC 93-Due to closure of Charleston, Alameda, Oakland, Long Beach, and El Toro, eight of our equipment specialists that have been located at those sites will have to be relocated.

FOR OFFICIAL USE ONLY
PRE-DECISIONAL INFORMATION

7. MISSION: Do not simply report the standard mission statement. Instead, describe important functions in a bulletized format. Include anticipated mission changes and brief narrative explanation of change; also indicate if any current/projected mission changes are a result of previous BRAC-88, -91,-93 action(s).

Current Missions

- **Development, verification, integrated logistics support, installation, certification and in-service support of shipboard catapults and shipboard/shorebased arresting gear and visual landing aids**
- **Prototyping and limited manufacture of fleet essential Aircraft Launch and Recovery Equipment (ALRE) and aircraft support equipment**
- **Acquisition and support of helicopter landing systems**
- **Development, integrated logistics support and acquistion of aircraft and avionic support equipment**
- **Direct on-board technical support to operating aircraft carriers and other air capable ships**

Projected Missions for FY 2001

- **Development, verification, integrated logistics support, installation, certification and in-service support of shipboard catapults and shipboard/shorebased arresting gear and visual landing aids**
- **Prototyping and limited manufacture of fleet essential Aircraft Launch and Recovery Equipment (ALRE) and aircraft support equipment**
- **Acquisition and support of helicopter landing systems**
- **Development, integrated logistics support and acquisition of aircraft and avionic support equipment**
- **Direct on-board technical support to operating aircraft carriers and other air capable ships**

FOR OFFICIAL USE ONLY
PRECISIONAL INFORMATION

8. UNIQUE MISSIONS: Describe any missions which are unique or relatively unique to the activity. Include information on projected changes. Indicate if your command has any National Command Authority or classified mission responsibilities.

Current Unique Missions

- **Engineering expertise in High-Energy Generation and Absorption Devices for Aircraft Launch and Recovery Technology**
- **Aircraft/Ship Systems Interface Technologies**
- **Shipboard and Expeditionary Airfield Aviation Servicing and Maintenance Technology.**
- **Shipboard and Expeditionary Airfield Visual Landing Technology**
- **Ability to evaluate aircraft launch and recovery equipment development under simulated shipboard conditions using in-ground catapult and arresting gear.**
- **Worldwide network of dedicated Aircraft Launch and Recovery Equipment (ALRE) technical representatives provide rapid response to fleet problems.**
- **Launch and Recovery Systems Manufacturing and Certification Capability (Mission and Life Critical Components)**
- **Technical Support to Defense Standardization Program**

Projected Unique Missions for FY 2001

- **Engineering expertise in High-Energy Generation and Absorption Devices for Aircraft Launch and Recovery Technology**
- **Aircraft/Ship Systems Interface Technologies**
- **Shipboard and Expeditionary Airfield Aviation Servicing and Maintenance Technology.**
- **Shipboard and Expeditionary Airfield Visual Landing Technology**
- **Ability to evaluate aircraft launch and recovery equipment development under simulated shipboard conditions using in-ground catapult and arresting gear.**
- **Worldwide network of dedicated Aircraft Launch and Recovery Equipment (ALRE) technical representatives provide rapid response to fleet problems.**
- **Launch and Recovery Systems Manufacturing and Certification Capability (Mission and Life Critical Components)**
- **Technical Support to Defense Standardization Program**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

DATA CALL 1

Revised pg N68335

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC): Identify your ISIC. If your ISIC is not your funding source, please identify that source in addition to the operational ISIC.

° Operational name	UIC
Naval Air Warfare Center Aircraft Division	**N00421**
° Funding Source	UIC

Lakehurst is an industrially funded activity, operating under the Defense Business Operations Fund (DBOF) regulations. All funding is received as reimbursable or direct cite from multiple sources, including all services, DOD, and other government agencies.

10. PERSONNEL NUMBERS: Host activities are responsible for totalling the personnel numbers for all of their tenant commands, even if the tenant command has been asked to separately report the data. The tenant totals here should match the total tally for the tenant listing provided subsequently in this Data Call (see Tenant Activity list). (Civilian count shall include Appropriated Fund personnel only.)

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
° Reporting Command	37	220	1,992
° Tenants (total) (NAESU would not provide site data)	17	133	122

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)
° Reporting Command	41	224	1,848 FTE
° Tenants (total) (NAESU would not provide site data)	23	153	200(R)

ENCLOSURE (/)

° **Launch and Recovery Systems Manufacturing and Certification Capability (Mission and Life Critical Components)**

° **Technical Support to Defense Standardization Program**

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC): Identify your ISIC. If your ISIC is not your funding source, please identify that source in addition to the operational ISIC.

° Operational name	UIC
Naval Air Warfare Center Aircraft Division	**N00421**
° Funding Source	UIC

Lakehurst is an industrially funded activity, operating under the Defense Business Operations Fund (DBOF) regulations. All funding is received as reimbursable or direct cite from multiple sources, including all services, DoD, and other government agencies.

10. PERSONNEL NUMBERS: Host activities are responsible for totaling the personnel numbers for all of their tenant commands, even if the tenant command has been asked to separately report the data. The tenant totals here should match the total tally for the tenant listing provided subsequently in this Data Call (see Tenant Activity list). (Civilian count shall include Appropriated Fund personnel only.)

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
° Reporting Command	**37**	**220**	**1,992 FTE**
° Tenants (total) (NAESU would not provide site data)	**17**	**133**	**122**

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)
° Reporting Command	**41**	**224**	**1,848FTE**
° Tenants (total) (NAESU would not provide site data)	**23**	**153**	**133**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Revised pg

N68335

11. KEY POINTS OF CONTACT (POC): Provide the work, FAX, and home telephone numbers for the Commanding Officer or OIC, and the Duty Officer. Include area code(s). You may provide other key POCs if so desired in addition to those above.

Title/Name	Office	Fax	Home
° CO/OIC			
Captain Leroy Farr	**(908) 323-2380**	**(908) 323-1364**	**(908) 323-8891**
° Duty Officer	**(908) 323-2308**	**[N/A]**	**[N/A]**
° BRAC POC			
Marty Borosko	**(908) 323-7560**	**(908) 323-7585**	**(609) 448-9342**
° **Pat Wesley**	**(908) 323-7561**	**(908) 323-7585**	**(908) 349-5275**

12. TENANT ACTIVITY LIST: This list must be all-inclusive. Tenant activities are to ensure that their host is aware of their existence and any "subleasing" of space. This list should include the name and UIC(s) of all organizations, shore commands and homeported units, active or reserve, DOD or non-DOD (include commercial entities). The tenant listing should be reported in the format provide below, listed in numerical order by UIC, separated into the categories listed below. Host activities are responsible for including authorized personnel numbers, on board as of **30 September 1994**, for all tenants, even if those tenants have also been asked to provide this information on a separate Data Call. (Civilian count shall include Appropriated Fund personnel only.) The number of personnel listed herein may overlap with the number of personnel listed under Item #10 Personnel numbers.

° Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
Naval Air Warfare Center Aircraft Divison, Trenton Detachment	**N62376**	**0**	**0**	**10**
Naval Facilities Command Northern Division, Philadelphia	**N44207 (R)**	**3**	**1**	**11**
Naval Telecommunications Command NAVTELCOMCEN	**N47633**	**1**	**15**	**1**
Navy Exchange	**N60667**	**1**	**2**	**0**
Defense Printing Service Branch Office	**N62576**	**0**	**0**	**18**
Commissary	**DCA**	**0**	**7**	**13**
Naval Investigative Service	**N63285**	**0**	**0**	**4**
Personnel Support Activity	**N68628**	**1**	**21**	**15**
Naval Dental Clinic	**N66023**	**1**	**3**	**1**
Naval Medical Clinic	**N68101**	**5**	**26**	**7**
Naval Air Technical Training Center Detachment	**N63094**	**4**	**67 (incl 22 students)**	**4**

(R)

11. KEY POINTS OF CONTACT (POC): Provide the work, FAX, and home telephone numbers for the Commanding Officer or OIC, and the Duty Officer. Include area code(s). You may provide other key POCs if so desired in addition to those above.

Title/Name	Office	Fax	Home
° CO/OIC			
Captain Leroy Farr	**(908) 323-2380**	**(908) 323-1364**	**(908) 323-8891**
° Duty Officer:	**(908) 323-2308**	**[N/A]**	**[N/A]**
° BRAC POC			
Marty Borosko	**(908) 323-7560**	**(908) 323-7585**	**(609) 448-9342**
Pat Wesley	**(908) 323-7561**	**(908) 323-7585**	**(908) 349-5275**

12. TENANT ACTIVITY LIST: This list must be all-inclusive. Tenant activities are to ensure that their host is aware of their existence and any "subleasing" of space. This list should include the name and UIC(s) of all organizations, shore commands and homeported units, active or reserve, DoD or non-DoD (include commercial entities). The tenant listing should be reported in the format provide below, listed in numerical order by UIC, separated into the categories listed below. Host activities are responsible for including authorized personnel numbers, on board as of **30 September 1994**, for all tenants, even if those tenants have also been asked to provide this information on a separate Data Call. (Civilian count shall include Appropriated Fund personnel only.)

The number of personnel listed herein may overlap with the number of personnel listed under Item #10 Personnel numbers.

° Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
Naval Air Warfare Center Aircraft Division, Trenton Detachment	**N62376**	**0**	**0**	**10**
Naval Facilities Command Northern Division, Philadelphia	**N62472**	**3**	**1**	**11**
Naval Telecommunications Command NAVTELCOMCEN	**N47633**	**1**	**15**	**1**
Navy Exchange	**N60667**	**1**	**2**	**0**
Defense Printing Service Branch Office	**N62576**	**0**	**0**	**18**
Commissary	**DCA**	**0**	**7**	**13**
Naval Investigative Service	**N63285**	**0**	**0**	**4**
Personnel Support Activity	**N68628**	**1**	**21**	**15**
Naval Dental Clinic	**N66023**	**1**	**3**	**1**

Naval Medical Clinic	**N68101**	**5**	**26**	**7**
Naval Air Technical Training Center Detachment	**N63094**	**4**	**67 (incl 22 students)**	**4**
Naval Mobile Construction Battalion 21	**N08861**	**0**	**5**	**0**
US Army CECOM Airborne Engineering Evaluation Support Activity	**ARMY**	**5**	**4**	**22**
U.S. Army (DARISSA)	**ARMY**	**2**	**2**	**2**
Defense Reutilization and Marketing Office	**DLA**	**0**	**0**	**25**
Ocean County Vocational Technical School	**NA**	**0**	**0**	**0**
US Army CECOM Electronics Integration Directorate	**ARMY**	**0**	**0**	**1**
Defense Finance and Accounting Service	**DoD**	**0**	**0**	**20**
Human Resources Office	**N00421**	**0**	**0**	**46**

° Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

° Tenants residing in Special Areas (Special Areas are defined as real estate owned by host command not contiguous with main complex; e.g. outlying fields).

Tenant Command Name	UIC	Location	Officer	Enlisted d	Civilian
N/A					

° Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

13. REGIONAL SUPPORT: Identify your relationship with other activities, not reported as a host/tenant, for which you provide support. Again, this list should be all-inclusive. The intent of this question is capture the full breadth of the mission of your command and your customer/supplier relationships. Include in your answer any Government Owned/Contractor Operated facilities for which you provide administrative oversight and control.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
McGuire AFB	**Wrightstown, NJ**	**Provision of Drop Zone (Letter)**
CECOM, Fort Monmouth	**Eatontown, NJ**	**Laser Range Finding/Targeting (Letter)**
Ocean County Sheriff's Office	**Toms River, NJ**	**Training (Informal Agreement)**
Naval Weapons Station Earle	**Colts Neck, NJ**	**Contract Support and Housing (Informal Agreement)**
160th Special Operations Aviation Regiment	**FT Campbell, KY**	**Training (Informal Agreement)**
Allied Signal Aerospace Company	**Teterboro, NJ**	**Laser Research (MOU)**
Bristol Emergency Amateur Repeating System	**Bristol, PA**	**Radio Repeater (License)**
Bureau of Alcohol, Tobacco and Firearms	**Philadelphia, PA**	**Radio Repeater (License)**
Federal Bureau of Investigation	**Newark, NJ**	**Radio Repeater (License)**
SATO	**Arlington, VA**	**Office Space (License)**
US Marshals Office	**Newark, NJ**	**Radio Repeater; Military Working Dogs (Lease Agreement)**
Virgin Lightships	**Orlando, FL**	**Hangar Space (License)**
US Naval Sea Cadet Squadron One	**Lakehurst, NJ**	**Host Chapter (MOA)**
Navy Lakehurst Rod and Gun Club	**Lakehurst, NJ**	**Host Chapter (Instruction)**
Lakehurst Navy Flying Club	**Lakehurst, NJ**	**Host Chapter (Instruction)**
Combined Federal Campaign	**Ocean County, NJ**	**Chair (Informal Agreement)**

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

Ocean County Chamber of Commerce	Toms River, NJ	Member (Informal Agreement)
Monmouth-Ocean Development Council	Toms River, NJ	Member (Informal Agreement)
Ocean County Energy Council	Toms River, NJ	Member (Informal Agreement)
NJ Institute of Technology Defense Procurement Assistance Center	Newark, NJ	Technology Exchange (Informal Agreement)
Boy Scouts of America	Various	Training (MOA)
US Air Force 343rd Technical Training Squadron	FT Dix, NJ	Training (Informal Agreement)
US Army Natick Development and Engineering Center	Natick, MA	Experiments (Informal Agreement-MOA in Progress)
Civil Air Patrol, Pineland Composite Squadron	Various	Training (Informal Agreement)
Virginia Army National Guard	Various, VA	Training (Informal Agreement)
187th Signal Brigade, New York Army National Guard	Various, NJ	Training (Informal Agreement)
Lakehurst Historical Society	Lakehurst, NJ	Technical Support (Informal Agreement)
Army National Guard Recruiting	Atlantic City, NJ	Housing (Instruction)
US Army Recruiting Command	Various	Housing (Instruction)
USAF Recruiting Command	Various	Housing (Instruction)
USMC Recruiting Command	Various	Housing (Instruction)
USN Recruiting Command	Various	Housing (Instruction)
USCG Station	PT Pleasant, NJ	Housing (Instruction)
Ocean County Vocational Tech. School	Various, Ocean County, NJ	Adopt-a-School Agreement
Manchester Township High School	Manchester, NJ	Adopt-a-School Agreement
Lakehurst Elementary School	Lakehurst, NJ	Adopt-a-School Agreement

FOR OFFICIAL USE ONLY
PRE-DECISIONAL INFORMATION

National Vocational-Industrial Clubs of America	**Reston, VA**	**Host Annual Competition (Informal Agreement)**
New Jersey Vocational-Industrial Clubs of America	**Trenton, NJ**	**Host Annual Competition (Informal Agreement)**
Ocean County Veterans Service Bureau	**Toms River, NJ**	**Referral Service (Informal Agreement)**
Navy League	**Lakehurst, NJ**	**Host Chapter (Informal Agreement)**
Fire Department	**Lakehurst Boro**	**Mutual Aid Agreement**
Fire Department	**Manchester Township**	**Mutual Aid Agreement**
Fire Department	**Lakewood Township**	**Mutual Aid Agreement**
Fire Department	**Jackson Township**	**Mutual Aid Agreement**
Fire Department	**Dover Township**	**Mutual Aid Agreement**
Fire Department	**Pine Beach Boro**	**Mutual Aid Agreement**
Fire Department	**Beachwood Boro**	**Mutual Aid Agreement**
Fire Department	**Ocean Gate Boro**	**Mutual Aid Agreement**
Fire Department	**Island Heights Lacey Twp**	**Mutual Aid Agreement**
Fire Department	**Mantoloking Boro**	**Mutual Aid Agreement**
Fire Department	**Berkley Township**	**Mutual Aid Agreement**
Fire Department	**Brick Township**	**Mutual Aid Agreement**
Fire Department	**Plumsted**	**Mutual Aid Agreement**
Fire Department	**New Egypt**	**Mutual Aid Agreement**
Fire Department	**PT Pleasant Boro**	**Mutual Aid Agreement**
Fire Department	**PT Pleasant Beach**	**Mutual Aid Agreement**
Fire Department	**Bay Head Boro**	**Mutual Aid Agreement**
Fire Department	**Lavellette Boro**	**Mutual Aid Agreement**
Fire Department	**Seaside Heights**	**Mutual Aid Agreement**
Fire Department	**Seaside Park**	**Mutual Aid Agreement**

14. FACILITY MAPS: This is a primary responsibility of the plant account holders/host commands. Tenant activities are not required to comply with submission if it is known that your host activity has complied with the request. Maps and photos should not be dated earlier than 01 January 1991, unless annotated that no changes have taken place. Any recent changes should be annotated on the appropriate map or photo. Date and label all copies.

° Local Area Map. This map should encompass, at a minimum, a 50 mile radius of your activity. Indicate the name and location of all DoD activities within this area, whether or not you support that activity. Map should also provide the geographical relationship to the major civilian communities within this radius. (Provide 12 copies.)

° Installation Map / Activity Map / Base Map / General Development Map / Site Map. Provide the most current map of your activity, clearly showing all the land under ownership/control of

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

your activity, whether owned or leased. Include all outlying areas, special areas, and housing. Indicate date of last update. Map should show all structures (numbered with a legend, if available) and all significant restrictive use areas/zones that encumber further development such as HERO, HERP, HERF, ESQD arcs, agricultural/forestry programs, environmental restrictions (e.g., endangered species). (Provide in two sizes: 36"x 42" (2 copies, if available); and 11"x 17" (12 copies).)

° Aerial photo(s). Aerial shots should show all base use areas (both land and water) as well as any local encroachment sites/issues. You should ensure that these photos provide a good look at the areas identified on your Base Map as areas of concern/interest - remember, a picture tells a thousand words. Again, date and label all copies. (Provide 12 copies of each, 8_"x 11".)

° Air Installations Compatible Use Zones (AICUZ) Map. (Provide 12 copies.)

FOR OFFICIAL USE ONLY
PREDECISIONAL INFORMATION

BRAC-95 CERTIFICATION

DATA CALL #1

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

Commander
Title

22 Feb 94
Date

Naval Air Warfare Center Aircraft Division, Lakehurst
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

G. H. STROHSAHL
NAME (Please type or print)

Signature

Commander
Title

23 Feb 94
Date

Naval Air Warfare Center
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES
NAME (Please type or print)

Signature

Commander
Title

28 Feb 94
Date

Naval Air Systems Command
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

NAME (Please type or print)
R. Loftus
Vice Admiral, U.S. Navy

Signature

Title
Deputy Chief of Naval Operations (Logistics)

3-11-94
Date

DATA CALL #1
Audit Changes
Lakehurst

pg 7 + 8

162

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

L. L. LUNDBERG
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

9/19/94
Date

NAVAL AIR WARFARE CENTER
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

W. C. BOWES, VADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

20 Sep 94
Date

NAVAL AIR SYSTEMS COMMAND
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER
NAME (Please type or print)

Signature

Title

9/26/94
Date

DATA CALL 1
BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 8 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

BARTON D. STRONG
NAME (Please type or print)

Barton D. Strong
Signature

COMMANDER
Title

2 Sept 1994
Date

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, NJ
Activity