

Industrial Joint Cross Service Group

BRAC Database Management Plan



May 6, 2005



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Introduction

The IJCSG BRAC Database Management Plan serves as a procedural guide for internal management of certified BRAC data that will be utilized by the database team and those involved in the data management process. This document is intended to be a living document and will be revised as required to implement appropriate procedures as data flow processes and data update procedures are clarified at both the OSD and MILDEP level.

The plan operates within the constraints set forth by the Office Procedures for the Industrial Joint Cross Service Group Base Realignment and Closure 2005 and is divided into three sections as follows:

- Database Architecture
- Data Security
- Change Control

Section I – Database Architecture

Certified BRAC data will be hosted at IJCSG on a centralized server in the form of seven Access 2003 Database Management Systems. Data shall be partitioned in accordance with the relevant subgroups

Master Database – The master database contains read-only data that mirrors the certified data as received from OSD. The master database is subject to configuration control and audit.

Production Databases – Three production databases reflect the partitioning of certified BRAC data along functional subgroup lines (e.g., maintenance, ship repair and overhaul, and munitions). This data is imported directly from the master database. Each production database is a repository of certified data at the question response level and will contain those queries, forms, and reports that are necessary to support detailed analysis by subject matter experts as well as management personnel. The production databases are subject to configuration control and audit.

Test Databases – Three test databases are uncontrolled versions of the production databases. The test databases provide a platform for development and testing of queries and reports. No configuration management or audit is necessary at this level and data is not certified as accurate.



Section II – Data Security

Data security is implemented to the fullest extent practicable by minimizing access to the database and by providing adequate data backups in the event of computer or database failure.

User Environment and Access to Data:

It is anticipated that subject matter specialists within each subgroup will be analyzing data through Excel reports rather than MS Access. Therefore, direct access to master, production, and test databases is limited to those personnel who either own or manage the data, and those personnel who develop queries to support analysis by subject matter specialists.

Accordingly, direct access to data is limited to the following named users:

Database Owner: Jay Berry
Data Manager: David Calderwood
Data Analyst/ Application Developer: Toni Nichols
Data Analyst/Application Developer: Sal Culosi

Data Backup:

All IJCSG master, production, and test databases will be backed up daily either to a secure remote server or to a tape or CD. If data is backed up to physical media, then that media should be stored in a secure container. Data backups shall be retained, at a minimum, as follows:

- For previous week's data, retain daily backup.
- For previous month's data, retain one backup for each week
- For data older than one month, retain one monthly backup.

Section III – Change Control

Change Control for Certified data in Master and Production Databases

It is anticipated that certified data at the OSD level will change and be augmented on a regular basis as a result of data validation efforts by the individual subgroups in



conjunction with the submitting activities. It is the responsibility of the IJCSG Data Manager to acquire the changed data and incorporate the changes locally. The following process defines how IJCSG will incorporate changes to its master database and parse those changes to the various production and test databases:

1. IJCSG will be notified by OSD or its agent that specific tables within the OSD certified master database have been changed. The nature of the specific changes will not be identified.
2. The data manager or approved representative will retrieve the applicable changed tables by FTP pull from OSD master database FTP site (<ftp.cna.org>). Prior to changing the master and production databases, the retrieved tables will be stored in a local computer folder.
3. The database manager will rename the tables to be changed in the master database by appending a date out indicator. For example if table Output500 is to be replaced with a new table Output500, table Output500 in the master database will be renamed Output500_05302004, indicating that the table was superseded on 5/30/2004. This same action is to be repeated in the various production databases as applicable.
4. After renaming the applicable tables in the master and production databases, the changed tables will be imported from the local computer folder to the master database. The production databases will then be refreshed by importing the changed tables from the master database into the appropriate production database.
5. It is anticipated that data in the test databases will be refreshed by dropping the old tables and refreshing them with revised tables from the master, however this is done informally.

Change Control for Database Queries, Forms, and Reports

The following is the process for developing and changing database queries, forms, and reports.

1. Database queries, forms and reports will be developed and debugged in the test databases and imported to the applicable production databases for use in providing information for official analysis.



2. No queries forms or reports are to be in the IJCSG master database outside of those provided in the certified OSD master database.
3. If a query, form, or report existing in a production database requires a design change, the existing query in the production database must first be renamed with a date out indicator. For example, if we wish to change query “qryxxxx”, we must first rename and save the query as “qryxxxx_05304004”. We are then free to change qryxxxx.

Section IV – Capacity Analysis Details

The Industrial Joint Cross Service Group (IJCSG) Production Database is a standard Microsoft Access Database application that contains programmed algorithms to appropriately determine site and commodity capacities. To properly view the database with all the macros and visual basic programming intact, Access 2003 platform is necessary. The IJCSG production database is comprised of three independent files: Maintenance Capacity Database; Munitions Capacity Database; and Ships Capacity Database (Each database is stand-alone).

Primary Output Tables (Questions) used for each Subgroup during the Capacity Analysis are as follows:

Maintenance: Questions 496, 497, 501, 503, 504, and 506

Munitions: Questions 512, 513, 514, 515, 517, 518, 519, 520, and 521

Ships: Questions 523, 524, 525, and 526

The Data Manager is responsible for importing the files into the appropriate subgroup’s production database. Figures 4 – 6 show the sequence of steps the data manager performs to do the import. These steps were built from inherent logic within the Access program. Within each of the production databases is the form that the data manager simply clicks each button in sequence to run the processes. The logic is transparent in that it runs behind the Access, simply stated; given the OSD Master Data Files and the IJCSG Production Database the output is the report. All the calculations are done within the program (fully automated). If further investigation is necessary as to a calculation that is performed, simply follow the Access logic behind the Form Buttons (Fig. 4 – 6).

Process for performing the update and producing the reports:

Step 1. Turn-on the Computer (must have Access 2003 loaded)

Step 2. Click on the Start Button (Far bottom left on Microsoft Windows Screen)

Step 3. Click on Programs



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- Step 4. Find the Microsoft Access Program and double click to start
- Step 5. When Access Program opens, click on File Button (in upper right corner of box)
- Step 6. In the Look In: box, find the Production Database file you want to open and click and click on it to open.
- Step 7. For IG offsite computers, three sets of warnings will come up...click thru using “Yes”, “Open”, and “Ok” respectively. (Figures 1-3 are the screens) (Opens the database as Read Only Access)
- Step 8. The database will open and the Form containing the Buttons will appear (Figures 4-6 are the screens).
- Step 9. The sequence of Steps is run by clicking the buttons. If a report is wanted the available reports are also buttons on the form.

Note: In the event the Form does not automatically appear when you click on the database...In the database menu that is on the screen, along the left side is a series of tabs below the word “Object’s” that can be opened. Click the tab labeled “Forms”; when the forms window opens click on the appropriate file and the form should appear.

Maintenance: frmIJCSGMaintenanceSubgroupReports
Munitions: frmIJCSGMunitionsSubgroupReports
Ships: frmIJCSGShipsSubgroupReports

If this does not correct the problem and open the Form, seek guidance from a technical specialist familiar with Microsoft Access 2003.

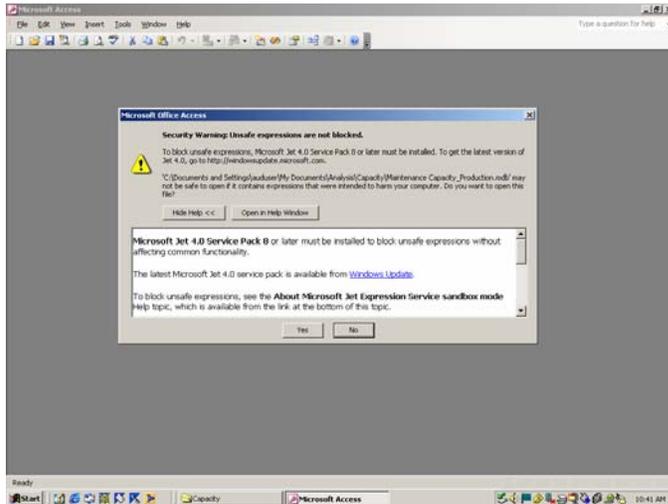


Figure 1: Click "Yes"

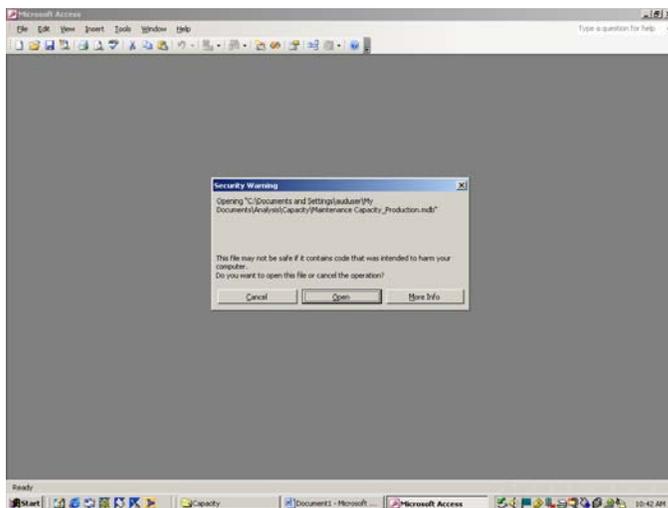


Figure 2: Click "Open"

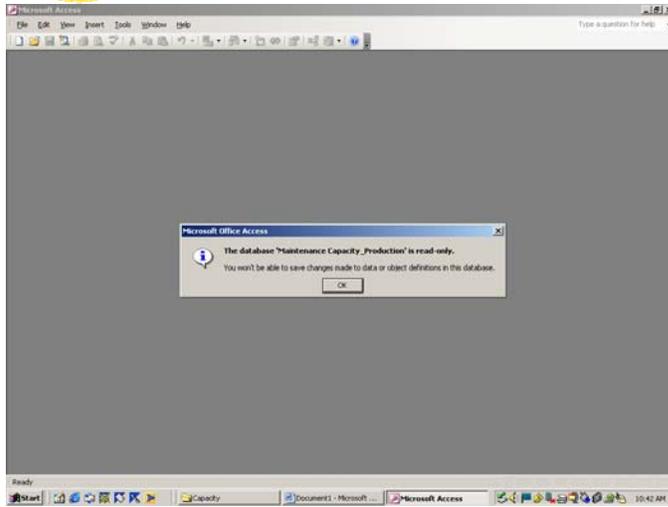


Figure 3: Click “OK” (for “Read Only” access)



Figure 4: Maintenance Subgroup Production Database (Capacity) Form



IJCSG Munitions SubGroup Reports

DROP ALL CAPACITY TABLES FROM DATABASE

IMPORT ALL CAPACITY TABLES FROM MASTER DATABASE

Delete Pretenders

Set the database date

Update Munitions Commodities

Update Nulls to Zero In Outputs 520, 521 ,2427

Add SFW to Output 4107

Fix Output4111 Double Reporting

Run Red Flaq Reports

Run Positive Response Table Dump

Capacity Analysis by Site Report

Capacity Analysis by Commodity Report

Make Question Responder List

Transfer Optimization Data

Record: 1 of 1

Figure 5: Munitions Subgroup Production Database (Capacity) Form



IJCSG Ship Repair SubGroup Reports

Drop All Capacity Tables from Database

Import Capacity Tables from Master Database

Delete Pretenders

Set the database date

Run Positive Response Data Dump

Run Capacity Summary Table

Capacity Analysis by Site Report

Capacity Analysis by Commodity Report

Make Ship Overhaul and Repair Respondee List

Transfer Optimization Data

Record: 1 of 1

Figure 6: Ships Subgroup Production Database (Capacity) Form



Section V – Military Value Analysis Details

Like Capacity Analysis, Military Value Analysis is performed on production database applications containing the programmed algorithms and Military Value Output tables appropriate to determining site military value as defined by the Industrial Joint Cross Service Group Military Value Analysis Plan approved Jun 30, 2004. The following crosswalk provides an audit trail between the various questions, metrics, attributes, and criteria and their associated weights contained in the plan with the appropriate database tables (Output Numbers).

Maintenance

Function: Depot Maintenance

Criteria #1 (39%)

Attribute: Maintenance Capability (46%)

Metric: Workforce and Skills (60%)

Q1 (CAP506) (35%)

Q2 (IND001 – IND057) (65%) [Output 2100 – 2156]

Metric: Equipment (25%)

Q3 (IND058) (100%) [Output 2157]

Metric: Last Source/Directed Workload (15%)

Q4 (CAP508 – 509) (100%)

Attribute: Inter-service and Commercial Partnership (31%)

Metric: Inter-service and Commercial Partnership (67%)

Q5 (CAP506 & IND059, IND060) (100%)

[Output 2158 – 2159]

Metric: Commercial Partnership (33%)

Q6 (IND061) (100%) [Output 2160]

Attribute: Proximity Considerations (20%)

Metric: Integrated Activities (100%)

Q7 (IND062 – IND118) (63%) [Output 2161 – 2217]

Q8 (IND119) (37%) [Output 2218]

Attribute: Quality (3%)

Metric: Quality of Work Performance (100%)

Q9 (IND120) (100%) [Output 2219]

Criteria #2 (30%)

Attribute: Expansion Potential (10%)

Metric: Buildable Acres (100%)



Q10 (IND121) (33%) [Output 2220]

Q11 (IND121) (67%) [Output 2220]

Attribute: Facility (60%)

Metric: Size, Type and Condition of the Buildings (100%)

Q12 (IND122 – IND178) (100%) [Output 2221 – 2277]

Attribute: Maintenance Operation/Environmental Restriction (30%)

Metric: Operational Restrictions (50%)

Q13 (IND179) (33%) [Output 2278]

Q14 (IND180) (33%) [Output 2279]

Q15 (IND181) (34%) [Output 2280]

Metric: Environmental Capacity (50%)

Q16 (IND182 – IND184) (50%) [Output 2281 – 2283]

Q17 (IND185) (50%) [Output 2284]

Criteria #3 (21%)

Attribute: Maintenance Capability (33%)

Metric: Workforce and Skills (100%)

Q18 (IND001 – IND057) (40%) [Output 2100 – 2156]

Q19 (IND186) (30%) [Output 2285]

Q20 (IND187) (30%) [Output 2286]

Attribute: Surge/Reconstitution (48%)

Metric: Maximum Capacity (60%)

Q21 (CAP501 & CAP503) (67%)

Q22 (CAP503) (33%)

Metric: Available Capacity (40%)

Q23 (CAP501 & CAP502) (75%)

Q24 (CAP501 & CAP502) (25%)

Attribute: Facility and Transportation Infrastructure (18%)

Metric: Available Building Space (75%)

Q25 (IND188 – IND244) (100%) [Output 2287 – 2343]

Metric: Transportation Modes (25%)

Q26 (IND245) (100%) [Output 2344]

Criteria #4 (10%)

Attribute: Direct Labor Cost (45%)

Metric: Direct Labor Cost per Production Hour (100%)

Q27 (IND246) (100%) (Only for FY03) [Output 2345]

Attribute: Other Cost (45%)

Metric: All Other Costs for Production Hour (100%)

Q28 (IND247) (100%) (Only for FY03) [Output 2346]

Attribute: Workforce and Skills (10%)

Metric: Stability (100%)

Q29 (IND248) (100%) [Output 2347]



Function: Combat Field Support/Intermediate Maintenance

Criteria #1 (50%)

Attribute: Maintenance Capability (30%)

Metric: Workforce Skills (100%)

Q1 (CAP495 & CAP496) (50%)

Q2 (CAP496) (50%)

Attribute: Inter-service (5%)

Metric: Inter-service (100%)

**Q3 (CAP496, IND249/FY01, IND250/FY02,
IND251/FY03) (100%) [Output 2348 – 2350]**

Attribute: Proximity Considerations (65%)

Metric: Proximity with DoD Customers (85%)

Q4 (IND252 – IND262) (100%) [Output 2351 – 2361]

Metric: Proximity to Depot (15%)

Q5 (IND263) (100%) [Output 2362]

Criteria: #2 (30%)

Attribute: Expansion Potential (10%)

Metric: Buildable Acres (100%)

Q6 (IND264) (33%) [Output 2363]

Q7 (IND264) (67%) [Output 2363]

Attribute: Facilities (60%)

Metric: Size, Type and Condition of Facilities (100%)

Q8 (IND265 – IND275) (100%) [Output 2364 – 2374]

Attribute: Maintenance Operation/Environmental Restriction (30%)

Metric: Operational Restrictions (50%)

Q9 (IND276) (34%) [Output 2375]

Q10 (IND277) (33%) [Output 2376]

Q11 (IND278) (33%) [Output 2377]

Metric: Environmental Capacity (50%)

Q12 (IND279 – IND281) (50%) [Output 2378 – 2380]

Q13 (IND282) (50%) [Output 2381]

Criteria #3 (15%)

Attribute: Maintenance Capability (40%)

Metric: Workforce and Skills (100%)

Q14 (CAP295 & IND283) (70%) [Output not Used]

Q15 (IND284) (15%) [Output 2382]

Q16 (IND285) (15%) [Output 2383]

Attribute: Proximity Considerations (60%)

Metric: Proximity with DoD Customers (70%)

Q17 (IND --) (100%) [Output --]

Metric: Proximity to Depot (30%)



Q18 (IND--) (100%) [Output --]

Criteria #4 (5%)

Attribute: Output per Manpower (100%)

Metric: Output per Manpower (100%)

Q19 (IND--) (100%) [Output --]



Munitions

Function: Munitions Production

Criteria #1 (35%)

Attribute: Capability (60%)

Metric: Munitions Production Processes (100%)

P1 (IND315) (33.4%) [Output 2413]

P2 (IND316) (33.3%) [Output 2414]

P3 (IND317) (33.3%) [Output 2415]

Attribute: Capacity (40%)

Metric: Munitions Production Capacity (100%)

P4 (CAP521) (100%)

Criteria #2 (15%)

Attribute: Facility Conditions (30%)

Metric: Condition of Facilities (100%)

P5 (IND318) (100%) [Output 2416]

Attribute: Expansion Capability (70%)

Metric: Buildable Acreage (40%)

P6 (CAP198) (100%)

Metric: Unutilized Plant Capacity (60%)

P7 (IND319) (100%) [Output 2417]

Criteria #3 (45%)

Attribute: Capability (40%)

Metric: Munitions Production Processes (100%)

P8 (IND315) (33.4%) [Output 2413]

P9 (IND316) (33.3%) [Output 2414]

P10 (IND317) (33.3%) [Output 2415]

Attribute: Capacity (60%)

Metric: Munitions Production Capacity (100%)

P11 (CAP521) (100%)

Criteria #4 (5%)

Attribute: Fixed Cost (80%)

Metric: Cost Required to Open the Doors (100%)

P12 (IND320) (100%) [Output 2418]

Attribute: Labor (20%)

Metric: Number of Employees and Size of Payroll (100%)

P13 (IND321) (50%) [Output 2419]

P14 (IND322) (50%) [Output 2420]



Function: Munitions Maintenance

Criteria #1 (25%)

Attribute: Capability (60%)

Metric: Processes for Munitions Maintenance (100%)

P15 (IND323) (100%) [Output 2421]

Attribute: Capacity (40%)

Metric: Capacity for Munitions Maintenance (100%)

P16 (CAP520) (100%)

Criteria #2 (20%)

Attribute: Facility Condition (30%)

Metric: Condition of Facilities (100%)

P17 (IND324) (100%) [Output 2422]

Attribute: Expansion Capability (70%)

Metric: Buildable Acreage (40%)

P18 (CAP198) (100%)

Metric: Unutilized Plant Capacity (UPC) (60%)

P19 (IND325) (100%) [Output 2423]

Criteria #3 (50%)

Attribute: Capability (40%)

Metric: Processes for Munitions Maintenance (100%)

P20 (IND323) (100%) [Output 2421]

Attribute: Capacity (60%)

Metric: Capacity for Munitions Maintenance (100%)

P21 (CAP520) (100%)

Criteria #4 (5%)

Attribute: Fixed Cost (80%)

Metric: Cost Required to Open the Doors (100%)

P22 (IND326) (100%) [Output 2424]

Attribute: Labor (20%)

Metric: Number of Employees and Size of Payroll (100%)

P23 (IND327) (50%) [Output 2425]

P24 (IND328) (50%) [Output 2426]

Function: Storage and Distribution

Criteria #1 (25%)

Attribute: Capacity (100%)

Metric: Storage Capacity (30%)

P25 (IND329) (100%) [Output 2427]

Metric: Distribution Capacity (70%)

P26 (IND330) (50%) [Output 2428]

P27 (IND331) (15%) [Output 2429]



P28 (IND332) (35%) [Output 2430]

Criteria #2 (20%)

Attribute: Facility Conditions (30%)

Metric: Condition of Facilities (100%)

P29 (IND333) (100%) [Output 2431]

Attribute: Expansion Capability (70%)

Metric: Buildable Acreage (50%)

P30 (CAP198) (100%)

Metric: Unutilized Plant Capacity (UPC) (50%)

P31 (IND334) (100%) [Output 2432]

Criteria #3 (50%)

Attribute: Capacity (100%)

Metric: Storage Capacity (30%)

P32 (IND329) (100%) [Output 2427]

Metric: Distribution Capacity (70%)

P33 (IND330) (50%) [Output 2428]

P34 (IND331) (15%) [Output 2429]

P35 (IND332) (35%) [Output 2430]

Criteria #4 (5%)

Attribute: Fixed Cost (80%)

Metric: Cost Required to Open the Doors (100%)

P36 (IND335) (100%) [Output 2433]

Attribute: Labor (20%)

Metric: Number of Employees and Size of Payroll (100%)

P37 (IND336) (50%) [Output 2434]

P38 (IND337) (50%) [Output 2435]

Function: Demilitarization

Criteria #1 (25%)

Attribute: Capability and Capacity (100%)

Metric: Processes for Munitions Demilitarization (100%)

P39/P40 (IND339) (100%) [Output 2437]

Criteria #2 (20%)

Attribute: Facility Condition (30%)

Metric: Condition of Facility (100%)

P41 (IND340) (100%) [Output 2438]

Attribute: Expansion Capability (70%)

Metric: Buildable Acreage (40%)

P42 (CAP198) (100%)

Metric: Unutilized Plant Capacity (UPC) (60%)

P43 (IND341) (100%) [Output 2439]



Criteria #3 (50%)

Attribute: Capability and Capacity (100%)

Metric: Processes for Demilitarization (100%)

P44/P45 (IND339) (100%) [Output 2437]

Criteria #4 (5%)

Attribute: Fixed Cost (80%)

Metric: Cost Required to Open the Doors (100%)

P46 (IND342) (100%) [Output 2440]

Attribute: Labor (20%)

Metric: Number of Employees and Size of Payroll (100%)

P47 (IND343) (50%) [Output 2441]

P48 (IND344) (50%) [Output 2442]

Function: Armaments Manufacturing/Production

Criteria #1 (45%)

Attribute: Capability (60%)

Metric: Processes for Armaments Manufacturing/Production (100%)

P49 (IND345) (100%) [Output 2443]

Attribute: Capacity (40%)

Metric: Capacity for Armaments Manufacturing/Production (100%)

P50 (IND346) (100%) [Output 2444]

Criteria #2 (15%)

Attribute: Facility Condition (30%)

Metric: Condition of Facility (100%)

P51 (IND347) (100%) [Output 2445]

Attribute: Expansion Capability (70%)

Metric: Buildable Acreage (40%)

P52 (CAP198) (100%)

Metric: Unutilized Plant Capacity (UPC) (60%)

P53 (IND348) (100%) [Output 2446]

Criteria #3 (35%)

Attribute: Capability (40%)

Metric: Processes for Armaments Manufacturing/Production (100%)

P54 (IND345) (100%) [Output 2443]

Attribute: Capacity (60%)

Metric: Capacity for Armaments Manufacturing/Production (100%)

P55 (IND346) (100%) [Output 2444]



Criteria #4 (5%)

Attribute: Fixed Cost (80%)

Metric: Cost Required to Open the Doors (100%)

P56 (IND349) (100%) [Output 2447]

Attribute: Labor (20%)

Metric: Number of Employees and Size of Payroll (100%)

P57 (IND350) (50%) [Output 2448]

P58 (IND351) (50%) [Output 2449]



Ships

Function: Depot

Criteria #1 (25%)

Attribute: Proximity Consideration (25%)

Metric: Proximity to Ship Home Ports (35%)

P1 (IND286 – IND289) (100%) [Output 2384 – 2387]

Metric: Proximity to Other DoD (25%)

P2 (IND290) (100%) [Output 2388]

Metric: Proximity to Ship Support Activities (25%)

P3 (IND291 – IND292) (100%) [Output 2389 – 2390]

Metric: Environmental Compliance and Permit Capacity (15%)

P4 (CAP199-201,215,218,219,238,241,245,249,250,252, 254,256,257,259-261,263,264,284) (100%)

Attribute: Workload Classification (50%)

Metric: Specialized Capabilities (30%)

P5 (IND293 – 294) (100%) [Output 2391 – 2392]

Metric: Ship Type/Class Serviced (25%)

P6 (IND286 – IND289) (100%) [Output 2384 – 2387]

Metric: Last Source (25%)

P7 (IND295) (100%) [Output 2393]

Metric: Type of Ship Availability Performed (20%)

P8 (IND286 – IND289) (100%) [Output 2384 – 2387]

Attribute: Workforce and Skills (25%)

Metric: Specialized Skills and Certifications (40%)

P9 (IND293 – 294) (100%) [Output 2391 – 2392]

Metric: Quantity of Skilled Workers (35%)

P10 (IND296) (100%) [Output 2394]

Metric: Workforce Development Opportunities (25%)

P11 (IND297) (100%) [Output 2395]

Criteria #2 (25%)

Attribute: Facilities (100%)

Metric: Dry Dock Capacity (45%)

P12 (IND298) (100%) [Output 2396]

Metric: Pier and Wharf Capacity (30%)

P13 (IND300) (100%) [Output 2398]

Metric: Industrial Building Availability (10%)

P14 (IND299) (100%) [Output 2397]

Metric: Dry Dock and Pier Crane Support (10%)

P15 (IND300) (100%) [Output 2398]



Metric: Specialized Facilities (5%)

P16 (IND293 – 294) (100%) [Output 2391 – 2392]

Criteria #3 (30%)

Attribute: Facilities (45%)

Metric: Dry Dock Capacity (45%)

P17 (IND298) (100%) [Output 2396]

Metric: Pier and Wharf Capacity (5%)

P18 (IND300) (100%) [Output 2398]

Metric: Industrial Building Availability (15%)

P19 (IND299) (100%) [Output 2397]

Metric: Dry Dock and Pier Crane Support (10%)

P20 (IND300) (100%) [Output 2398]

Metric: Specialized Facilities (25%)

P21 (IND293 – 294) (100%) [Output 2391 – 2392]

Attribute: Workforce and Skills (35%)

Metric: Specialized Skills and Certifications (30%)

P22 (IND293 – 294) (100%) [Output 2391 – 2392]

Metric: Quantity of Skilled Workers (20%)

P23 (IND296) (100%) [Output 2394]

Metric: Workforce Development Opportunities (50%)

P24 (IND297) (100%) [Output 2395]

Attribute: Flexibility (20%)

Metric: Regulatory Ability to Expand Operations (35%)

P25 (CAP211) (100%)

Metric: Utility Expansion Opportunity (35%)

P26 (CAP621) (100%)

Metric: Contract Support and Expansion (30%)

P27 (IND291 – IND292) (50%) [Output 2389 – 2390]

P28 (IND301) (50%) [Output 2399]

Criteria #4 (20%)

Attribute: Cost (20%)

Metric: Total Operating Cost (100%)

P29 (IND302) (100%) [Output 2400]

Attribute: Workforce and Skills (40%)

Metric: Specialized Skills and Certifications (50%)

P30 (IND293 – 294) (100%) [Output 2391 – 2392]

Metric: Quantity of Skilled Workers (40%)

P31 (IND297) (100%) [Output 2395]

Metric: Workforce Development Opportunities (10%)

P32 (IND297) (100%) [Output 2395]

Attribute: Efficiency (40%)

Metric: History of Efficient Operations (100%)



P33 (IND303) (100%) [Output 2401]

Function: Intermediate Maintenance

Criteria #1 (50%)

Attribute: Proximity Considerations (45%)

Metric: Proximity to Ship Home Ports (70%)

P1 (IND286 – IND289) (100%) [Output 2384 – 2387]

Metric: Proximity to Other DoD (10%)

P2 (IND290) (100%) [Output 2388]

Metric: Proximity to Ship Support Activities (10%)

P3 (IND291 – IND292) (50%) [Output 2389 – 2390]

P4 (IND305) (50%) [Output 2403]

Metric: Environmental Compliance and Permit Capacity (10%)

P5 (CAP211) (100%)

Attribute: Workload Classification (35%)

Metric: Taking Maintenance & Repair to the Fleet (30%)

P6 (IND306) (100%) [Output 2404]

Metric: Type of Ship Maintenance & Repair Performed (70%)

P7 (IND286 – IND289) (60%) [Output 2384 – 2387]

P8 (IND307) (40%) [Output 2405]

Attribute: Workforce and Skills (20%)

Metric: Specialized Skills and Certifications (30%)

P9 (IND293 – 294) (100%) [Output 2391 – 2392]

Metric: Quantity of Skilled Workers (30%)

P10 (IND308) (100%) [Output 2406]

Metric: Educational (Workforce Development) Opportunities (10%)

P11 (IND309) (100%) [Output 2407]

Metric: Military Sea/Shore Rotation Billets (30%)

P12 (IND310) (100%) [Output 2408]

Criteria #2 (15%)

Attribute: Facilities (70%)

Metric: Dry Dock Capacity (25%)

P13 (IND298) (100%) [Output 2396]

Metric: Pier and Wharf Capacity (25%)

P14 (IND300) (100%) [Output 2398]

Metric: Industrial Building Availability (25%)

P15 (IND299) (100%) [Output 2397]

Metric: Dry Dock and Pier Crane Support (15%)

P16 (IND300) (100%) [Output 2398]

Metric: Specialized Facilities (10%)



- P17 (IND293 – 294) (100%) [Output 2391 – 2392]**
- Attribute: Real Estate (30%)**
 - Metric: Expansion Potential (100%)**
 - P18 (CAP621) (100%)**
- Criteria #3 (25%)**
 - Attribute: Facilities (45%)**
 - Metric: Dry Dock Capacity (25%)**
 - P19 (IND298) (100%) [Output 2396]**
 - Metric: Pier and Wharf Capacity (35%)**
 - P20 (IND300) (100%) [Output 2398]**
 - Metric: Industrial Building Availability (15%)**
 - P21 (IND299) (100%) [Output 2397]**
 - Metric: Dry Dock and Pier Crane Support (15%)**
 - P22 (IND300) (100%) [Output 2398]**
 - Metric: Specialized Facilities (10%)**
 - P23 (IND293 – 294) (100%) [Output 2391 – 2392]**
 - Attribute: Workforce and Skills (35%)**
 - Metric: Specialized Skills and Certifications (25%)**
 - P24 (IND293 – 294) (100%) [Output 2391 – 2392]**
 - Metric: Quantity of Skilled Workers (25%)**
 - P25 (IND308) (100%) [Output 2406]**
 - Metric: Educational (Workforce Development) Opportunities (25%)**
 - P26 (IND309) (100%) [Output 2407]**
 - Metric: Military Sea/Shore Rotation Billets (25%)**
 - P27 (IND310) (100%) [Output 2408]**
 - Attribute: Plant Value (Planned/Recent Operational Capability Improvements) (20%)**
 - Metric: Recent and Programmed Capital Investments (100%)**
 - P28 (IND311) (100%) [Output 2409]**
- Criteria #4 (10%)**
 - Attribute: Workforce and Skills (50%)**
 - Metric: Specialized Skills and Certifications (25%)**
 - P29 (IND293 – 294) (100%) [Output 2391 – 2392]**
 - Metric: Quantity of Skilled Workers (25%)**
 - P30 (IND308) (100%) [Output 2406]**
 - Metric: Educational (Workforce Development) Opportunities (25%)**
 - P31 (IND312) (100%) [Output 2410]**
 - Metric: Military Sea/Shore Rotation Billets (25%)**
 - P32 (IND310) (100%) [Output 2408]**
 - Attribute: Cost (30%)**



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Metric: Total Operating Cost (100%)

P33 (IND302) (100%) [Output 2400]

Attribute: Plant Value & Maintenance Cost (20%)

**Metric: Plant Replacement Value of Facilities & Equipment
(25%)**

P34 (IND313) (100%) [Output 2411]

Metric: Maintenance and Repair of Buildings (25%)

P35 (IND314) (100%) [Output 2412]

Metric: Recent and Programmed Capital Investments (50%)

P36 (IND311) (100%) [Output 2409]