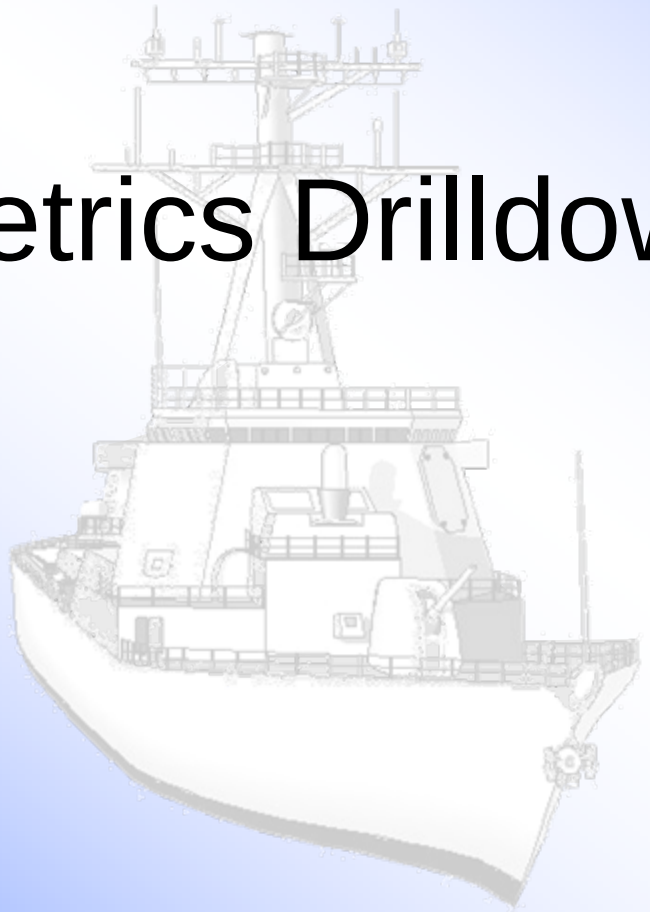
Tools and Tips

Things You Can Use for Improvement on Your Ship

Metrics Drilldown



METRICS WEBSITES

- Websites:
  - **https://www.mra.corona.navy.mil** ("official")
  - **www.spear.navy.mil**

CS 30 Main - Microsoft Internet Explorer provided by AMSEC

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NAVSEA WARFARE CENTERS

NAVAL SURFACE WARFARE CENTER CORONA DIVISION

CORONA Saturday, April 05, 2008

PRODUCTS: TSP-NG | MRDB-NG | BR-MM | MCIT | MFOM

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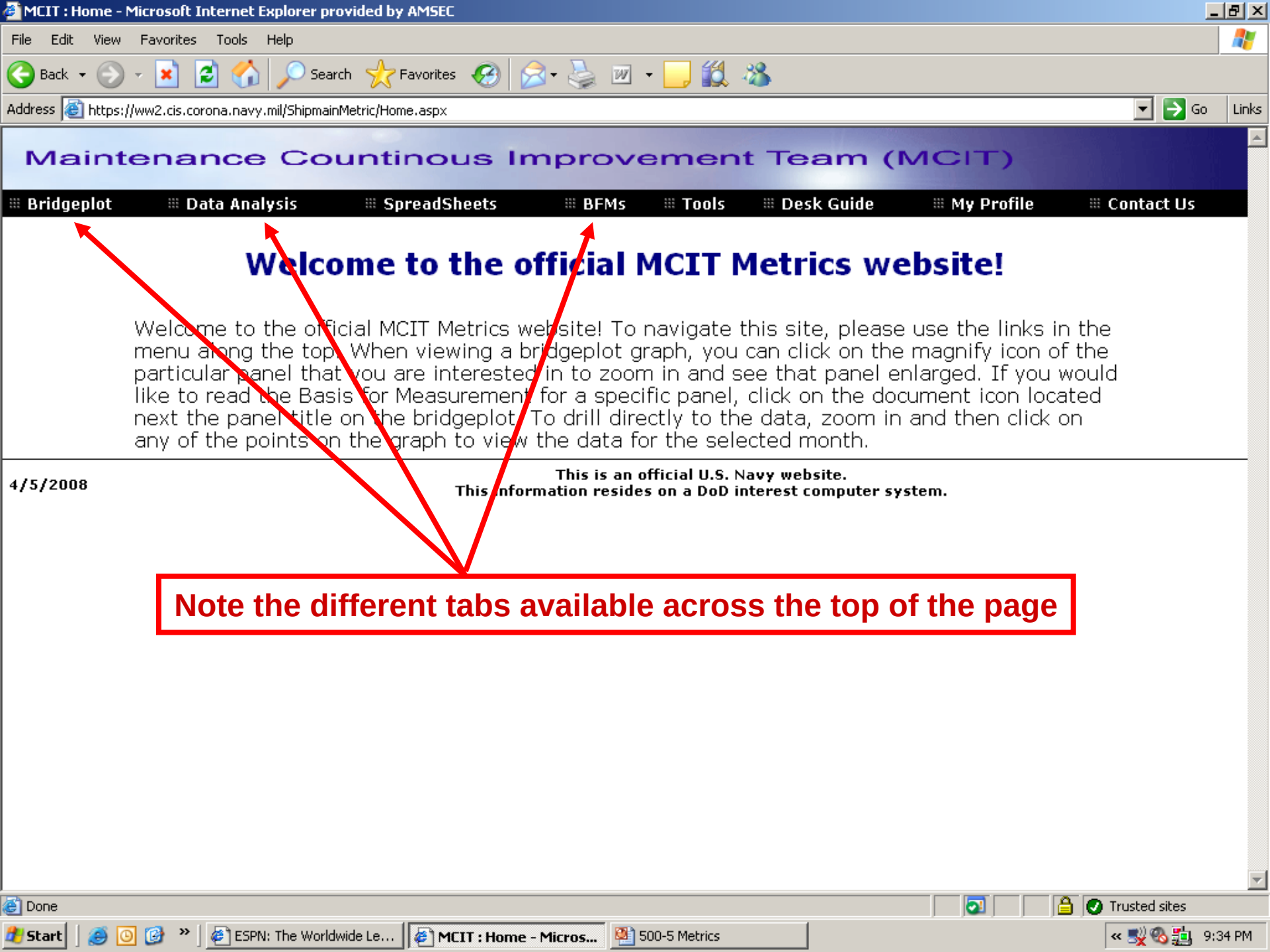
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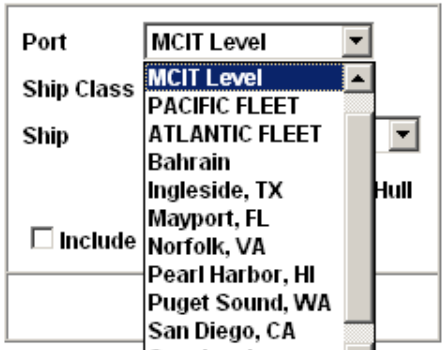
MCIT

The MCIT Metrics Bridgeplot provides data for measuring ship and Port Engineer responsiveness times. Metrics include On Time Delivery (OTD), First Pass Yield (FPY), Cycle Time (CT), Days Late, and Cost measurements. Metrics are presented graphically at the MCIT, Fleet, Port, and Ship level. Data point drill down to the job level is available on selected panels. See specific panel information below for further information on each panel on the Bridgeplot. Basis For Measurement (BFM) documents are also available for each metric. Each BFM contains detailed information about the metric, including the algorithm used to calculate the metric and an explanation of what the metric means.

Click the link below to proceed to the MCIT Bridgeplot

Click to View the Panels 9 and 11 Premiums in Excel



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Maintenance Countinous Improvement Tea

Bridgeplot | Data Analysis | SpreadSheets | BFMs | Tools | Desk Guide | My Profile | Contact Us

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BFM

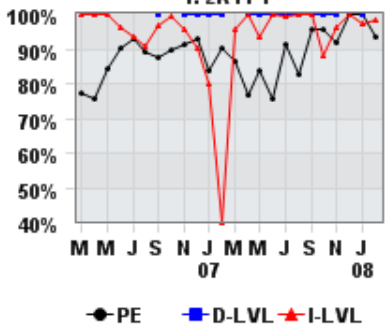
SHIPMAIN MCIT

2/2008

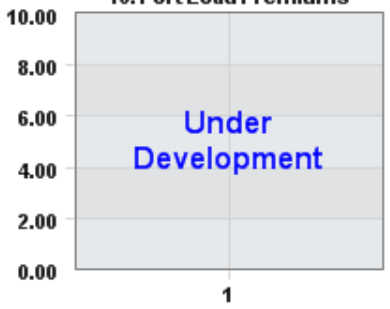
USS ANTIETAM (CG54 - 21387)

UNDER REVIEW

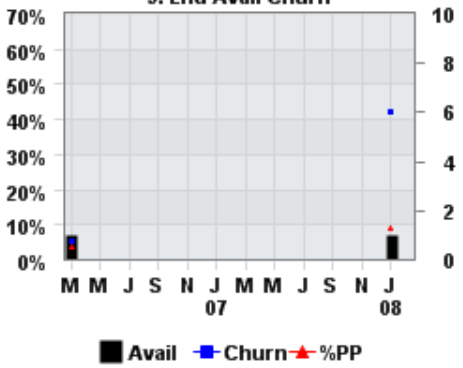
1. 2K FPY



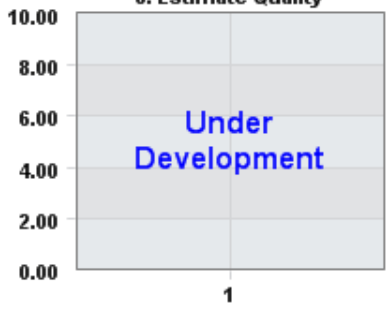
10. Port Load Premiums



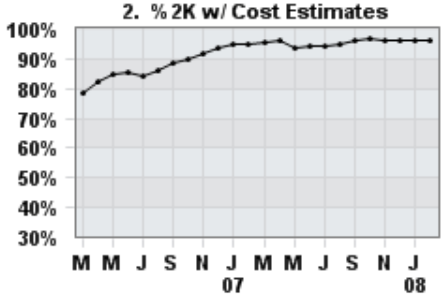
9. End Avail Churn



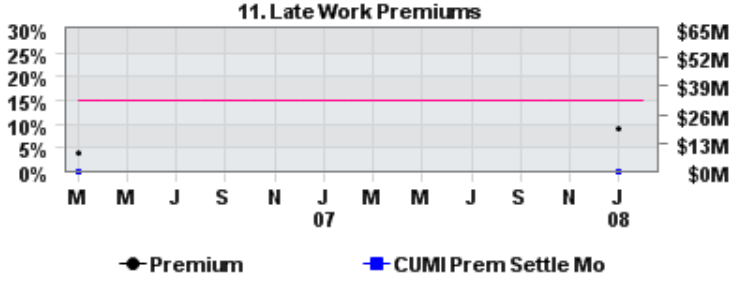
8. Estimate Quality



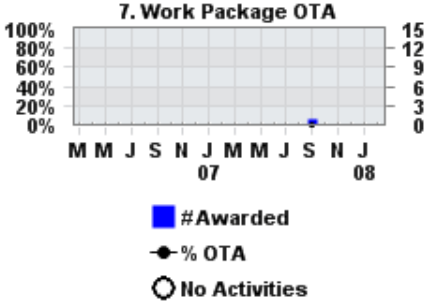
2. % 2K w/ Cost Estimates



11. Late Work Premiums



7. Work Package OTA



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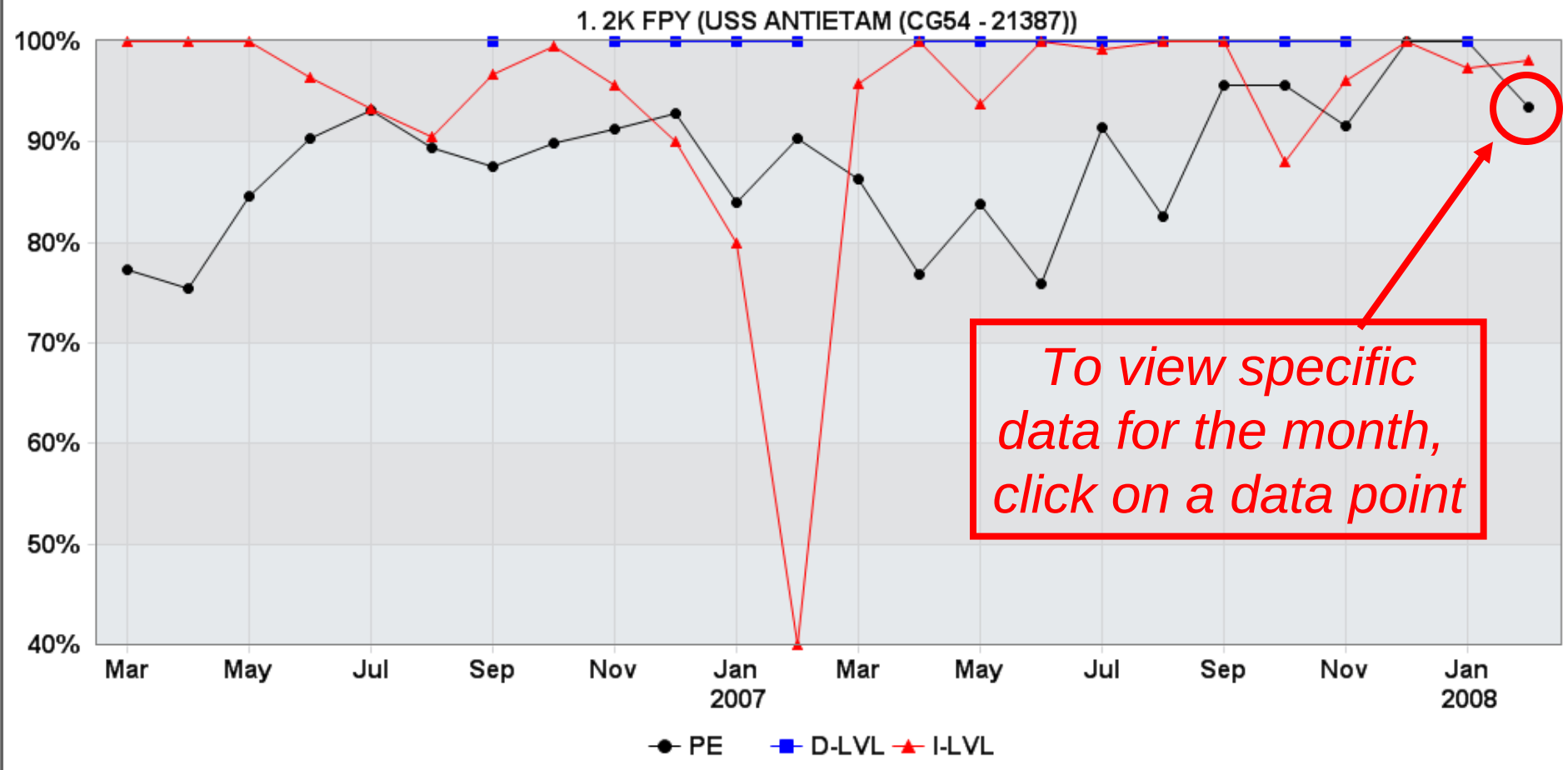
Ship: USS ANTIETAM [DecomYYMM:] Planner: **Only applies to D-Lvl (NMD) plot.

BFM:



To view specific data for the month, click on a data point

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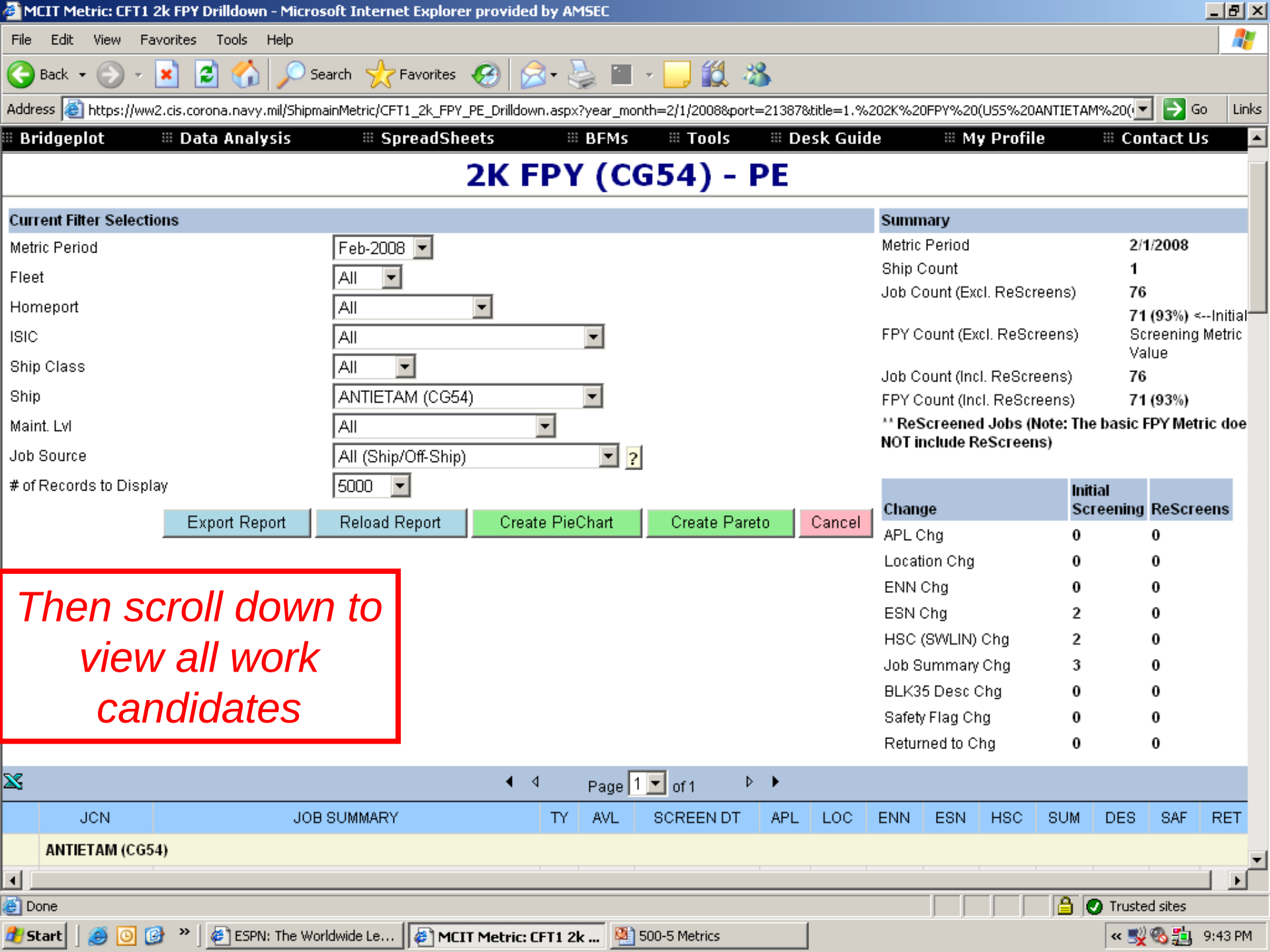
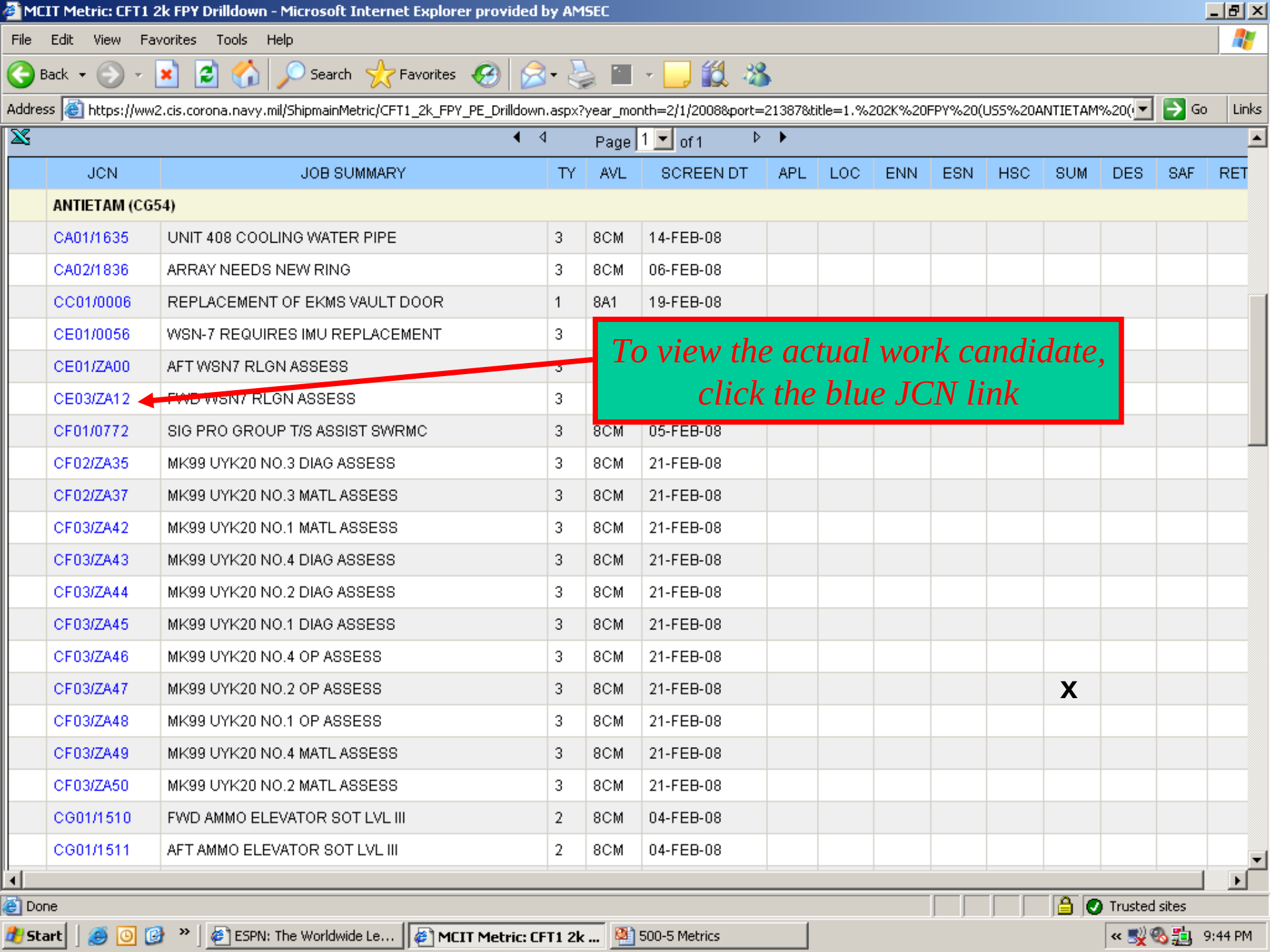


Then scroll down to view all work candidates



JCN	JOB SUMMARY	TY	AVL	SCREEN DT	APL	LOC	ENN	ESN	HSC	SUM	DES	SAF	RET
ANTIETAM (CG54)													
CA01/1635	UNIT 408 COOLING WATER PIPE	3	8CM	14-FEB-08									
CA02/1836	ARRAY NEEDS NEW RING	3	8CM	06-FEB-08									
CC01/0006	REPLACEMENT OF EKMS VAULT DOOR	1	8A1	19-FEB-08									
CE01/0056	WSN-7 REQUIRES IMU REPLACEMENT	3											
CE01/ZA00	AFT WSN7 RLGN ASSESS	3											
CE03/ZA12	FWD WSN7 RLGN ASSESS	3											
CF01/0772	SIG PRO GROUP T/S ASSIST SWRMC	3	8CM	05-FEB-08									
CF02/ZA35	MK99 UYK20 NO.3 DIAG ASSESS	3	8CM	21-FEB-08									
CF02/ZA37	MK99 UYK20 NO.3 MATL ASSESS	3	8CM	21-FEB-08									
CF03/ZA42	MK99 UYK20 NO.1 MATL ASSESS	3	8CM	21-FEB-08									
CF03/ZA43	MK99 UYK20 NO.4 DIAG ASSESS	3	8CM	21-FEB-08									
CF03/ZA44	MK99 UYK20 NO.2 DIAG ASSESS	3	8CM	21-FEB-08									
CF03/ZA45	MK99 UYK20 NO.1 DIAG ASSESS	3	8CM	21-FEB-08									
CF03/ZA46	MK99 UYK20 NO.4 OP ASSESS	3	8CM	21-FEB-08									
CF03/ZA47	MK99 UYK20 NO.2 OP ASSESS	3	8CM	21-FEB-08						X			
CF03/ZA48	MK99 UYK20 NO.1 OP ASSESS	3	8CM	21-FEB-08									
CF03/ZA49	MK99 UYK20 NO.4 MATL ASSESS	3	8CM	21-FEB-08									
CF03/ZA50	MK99 UYK20 NO.2 MATL ASSESS	3	8CM	21-FEB-08									
CG01/1510	FWD AMMO ELEVATOR SOT LVL III	2	8CM	04-FEB-08									
CG01/1511	AFT AMMO ELEVATOR SOT LVL III	2	8CM	04-FEB-08									

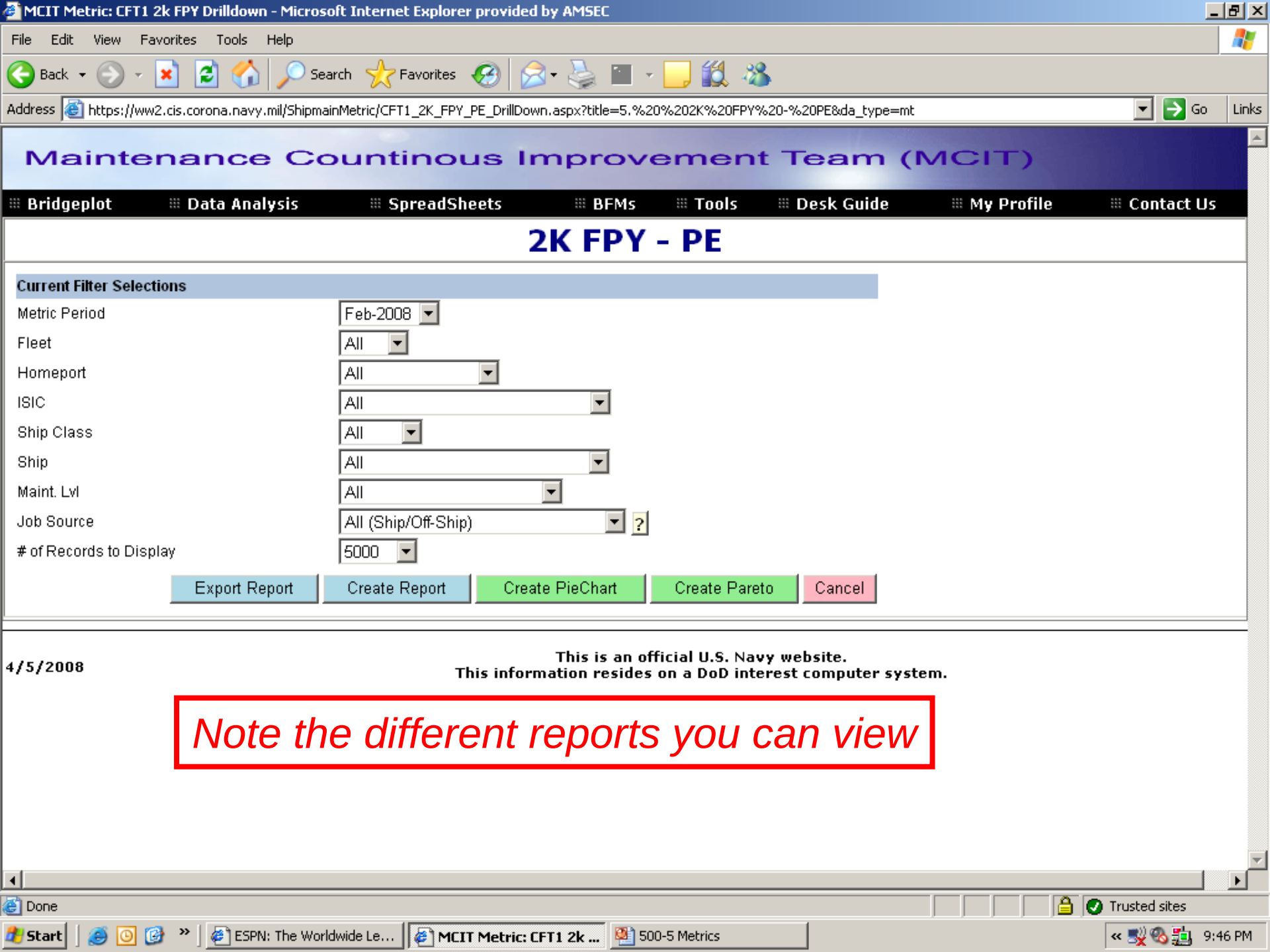
Shipmain Data Analysis

Lant/Pac Fleet Metric Data

- (•) 1. Median MFOM 1.0 - Ship MFOM
- ( ) 1. Median MFOM 1.0 - Class MFOM
- ( ) 1. Median MFOM 1.0 - Fleet MFOM
- ( ) 2. Churn/Auth. Alts Installed - Under Development
- ( ) 3. Ship to Shore CT
- ( ) 4. Shore to Screen CT
- ( ) 5. 2K FPY - PE
- ( ) 5. 2K FPY - D-LVL
- ( ) 5. 2K FPY - I-LVL
- ( ) 6. Package Development - Under Development
- ( ) 7. Bus Plan Execution - Under Development
- ( ) 8. Funding Profile - Under Development
- ( ) 9. Premiums Paid and Churn - Under Development

Continue

Note: Select a Metric Data Set, then click continue.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2K FPY - PE
Current Filter Selections
Metric Period Feb-2008
Fleet All
Homeport All
ISIC All
Ship Class All
Ship All
Maint. Lvl All
Job Source All (Ship/Off-Ship) ?
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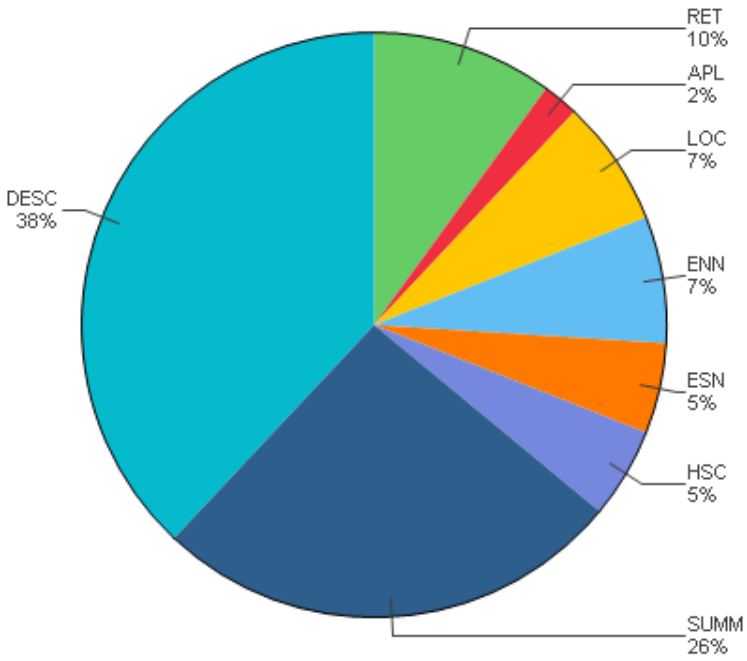
Maintenance Countinous Improvement Team (MCIT)

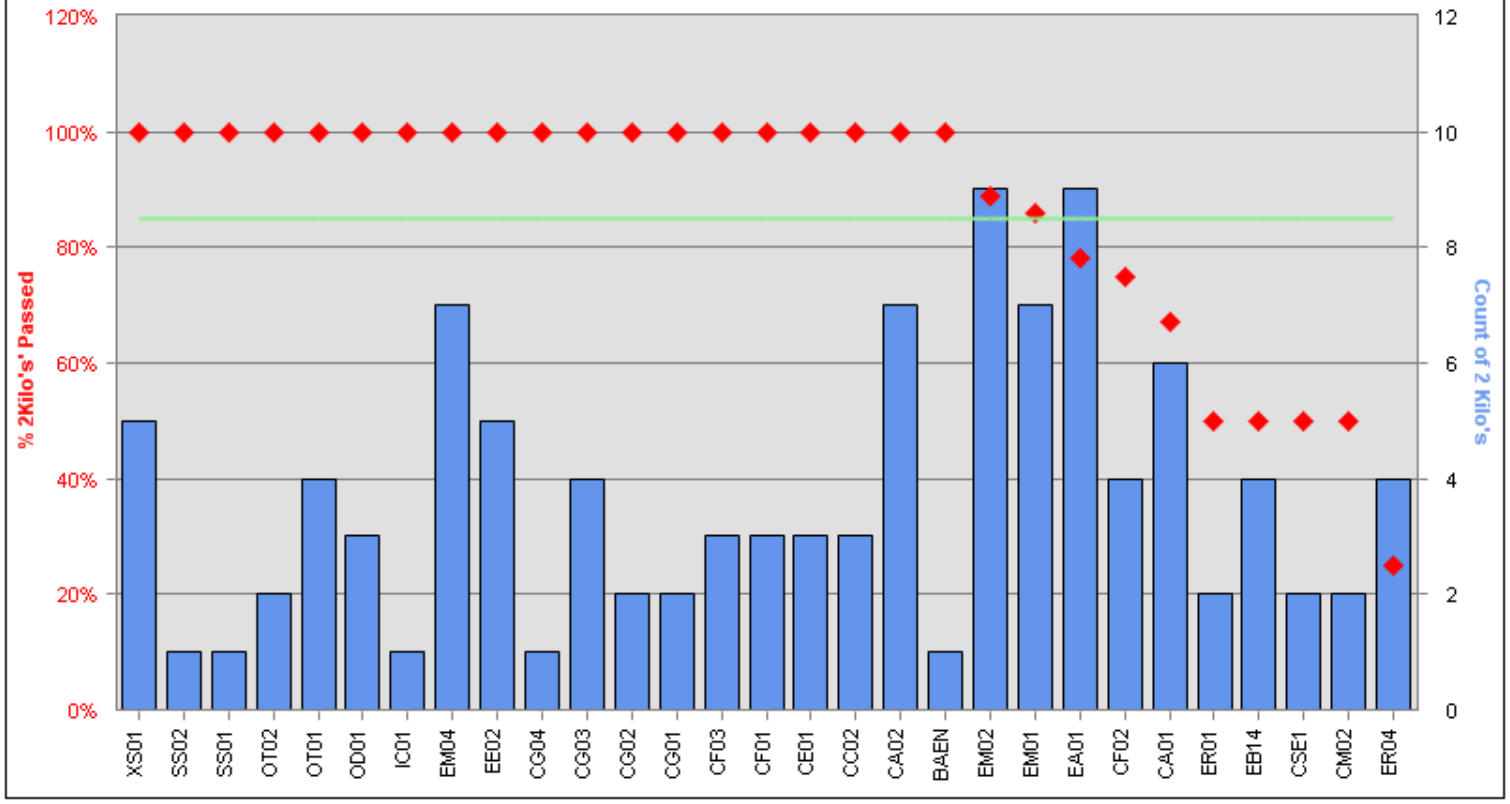
Ship 2K FPY

Fleet: ; Homeport: ; ShipClass: ; Ship: USS ANZIO (CG68)
ISIC: ALL; MaintLvl: All; JobSource: All (Ship/Off-Ship)
Metric Period: Aug-2007 through Feb-2008



<< Go Back To Drilldown Data | Data Table | Copy Chart

Ship: USS ANZIO (CG68) FPY Histogram
MaintLvl: All; JobSource: All (Ship/Off-Ship)
Metric Period: Nov-2007 through Feb-2008



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Software
Directories
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Routine SPEAR Maintenance schedules announced
1/25/2010
The SPEAR network will undergo routine maintenance every Friday, 0630-0800. The SPEAR network and/or web sites may be inaccessible or have limited accessibility during this time.
Password Policy Updated
8/5/2009
All SPEAR users who do not use a CAC for authentication are required to meet the DOD password length standard. Passwords must be a minimum of 14 characters. This requirement will be implemented the next time you set a new password.
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*Last Name:	
*First Name:	
*Middle Initial:	Middle Initial Not Available ☐
Rate/Rank:	
Code:	
*Activity:	
*Company Name:	

- ◉ MSR
- ○ ABR
- ○ N/A (Neither MSR nor ABR)

***Contractors MUST provide company name**

*SHIPMAIN Team:	
Job Title:	
*Phone Number:	(___) ___-____ EXT: _____
Fax Number:	(___) ___-____
*Email Address:	
Remarks:	

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*Name:	
*Organization:	
*Address1:	
*Address2:	
*COMM Phone Number:	(___) ___-____ EXT: _____
	*** SEE NOTE
*Email Address:	

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CFT 3 Baseline Mapping Lessons Learned
MSMO BRT Cycle of Learning Inputs
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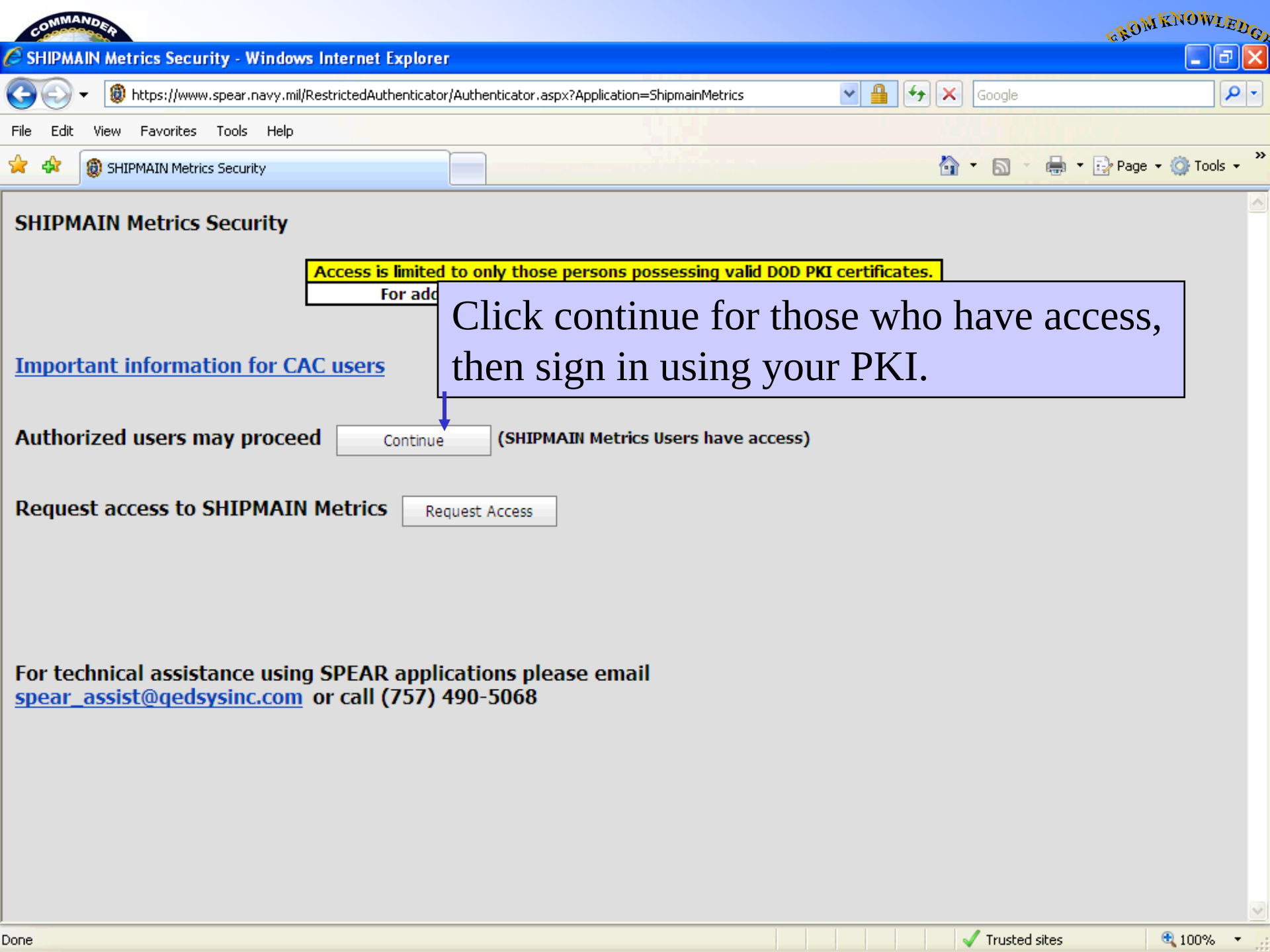
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Click continue for those who have access, then sign in using your PKI.
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Welcome to the ShipMain (CFT1 Metrics Analysis) Sub-System

This Web Site is a 'Work in Progress'. It is slowly evolving and new features are being added as needed.

Feedback is invited on the usefulness of this site and/or recommendations for improvement or new features (See Feedback Menu Option).

Shipmain

BridgePlots for Atlantic/Pacific Fleet Ships

- (•) 1) Ship to Shore sCT
- ( ) 2) Shore to Screen sCT
- ( ) 3) Ship 2K FPY
- ( ) 4) Cancelled Jobs
- ( ) 5) Completion 2K FPY
- ( ) 6) OTD Indicator (CNO only)
- ( ) 8) Unscreened Jobs
- ( ) 9) MFOM
- ( ) 11) Assigned, Not Authorized
- ( ) 13) Screening 2K FPY
- ( ) 14) Cost Estimates Available
- ( ) 15) SWLIN Changes (Under Review)
- ( ) Composite (1, 2, 3, & 13)
- ( ) Composite (4, 6, 8, & 11)
- ( ) 17) %Screened to Avail Within Entitlement

Continue

Note: Select a Bridgeplot item, then click continue.

Shipmain Data Analysis

Lant/Pac Fleet Metric Data

- (•) 1) Ship to Shore CT
- ( ) 2) Shore to Screen Static CT
- ( ) 3) Ship 2K FPY
- ( ) 4) Cancelled Jobs
- ( ) 5) Completion FPY
- ( ) 6) OTD (On-Time Delivery)
- ( ) 7) Emergent Work
- ( ) 8) Unscreened Jobs
- ( ) 9) MFOM
- ( ) 10) Cost (Under Development)
- ( ) 11) Assigned, Not Authorized
- ( ) 12) Weighted MFOM (See Reports)
- ( ) 13) Screening 2K FPY
- ( ) 14) CostEstimates Available
- ( ) 15) SWLIN Changes by P/E's (Under Review)
- ( ) 16) Self Sufficiency Index (Under Development)
- ( ) 17) AvlNbrs Assigned within 8 day entitlement

Continue

Shipmain Reports

Lant/Pac Fleet Data

- (•) Unscreened Jobs Aging Report
- ( ) Assigned, Not Authorized Aging Report
- ( ) Weighted MFOM Report
- ( ) MFOM (MRS Class/SWLIN/Severity/MCC) Report
- ( ) Availability Verification Reports(CNO/CMAV)
- ( ) CDMD HSC Error Translator
- ( ) Excel Version CSMP Reports
- ( ) Self Suffiency Index Report

Your Shore File

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Shipmain

BridgePlots for Atlantic/Pacific Fleet Ships

- (•) 1) Ship to Shore sCT
- ( ) 2) Shore to Screen sCT
- ( ) 3) Ship 2K FPY
- ( ) 4) Cancelled Jobs
- ( ) 5) Completion 2K FPY
- ( ) 6) OTD Indicator (CNO only)
- ( ) 8) Unscreened Jobs
- ( ) 9) MFOM
- ( ) 11) Assigned, Not Authorized
- ( ) 13) Screening 2K FPY
- ( ) 14) Cost Estimates Available
- ( ) 15) SWLIN Changes (Under Review)
- ( ) Composite (1, 2, 3, & 13)
- ( ) Composite (4, 6, 8, & 11)
- ( ) 17) %Screened to Avail Within Entitlement

Continue

Note: Select a Bridgeplot item, then click continue.

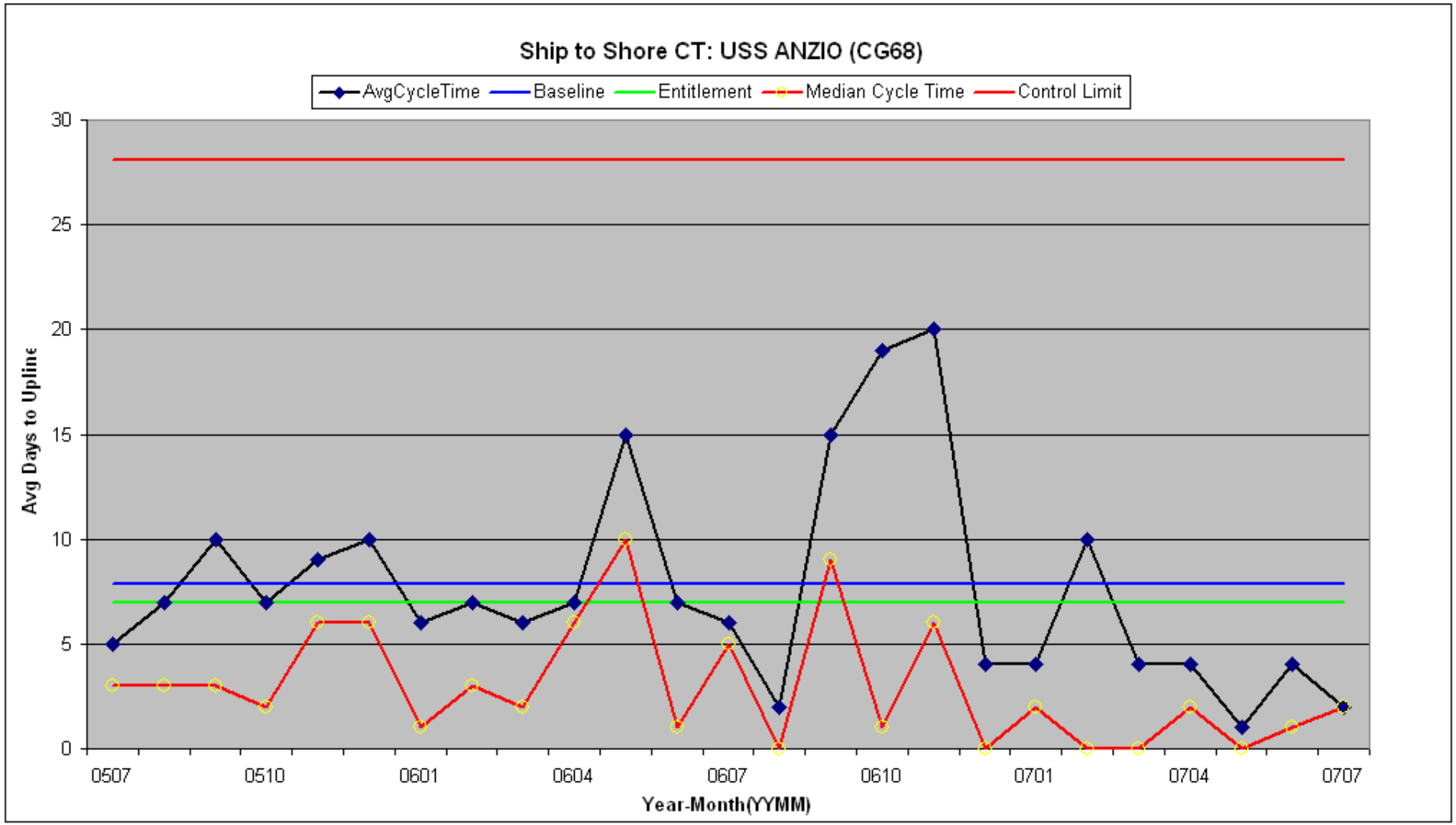
Ship to Shore sCT
BridgePlots for Lant/Pac Fleet Ships

Fleet: ALL **and/or**
HomePort: **or**
ISIC: **and/or**
ShipClass: **or**
Ship: ANZIO (CG68)
MaintLvl: ALL
Display Period: ○ 12 Months ◉ 24 Months ○ 36 Months ○ 48 Months

Create Chart Cancel

Note: HomePort/ShipClass and Individual Ship selections are mutually exclusive. If not selecing an individual ship, recommend select a HomePort and/or ShipClass.

Suggestion: Add a TrendLine when viewing chart.



Metric #1: Ship to Shore CT for Lant/Pac Fleet Ships

Period: Nov-2006
Fleet: ALL **and/or**
(HomePort: **or**
ISIC: **and/or**
ShipClass: **) or**
Ship: ANZIO (CG68)
MaintLvl: ALL
JobSource: ALL(Ship/Off-Ship) ?
WorkCenter:
Show >: **Days** (Leave blank to show all)

Export Report | Create Pareto | Create Report | Cancel

Note: HomePort/ShipClass and Individual Ship selections are mutually exclusive. If not selecting an individual ship, recommend select a HomePort and/or ShipClass.
Enter a full, or leading part of a WorkCenter to limit results to a specific, or group of, WorkCenter(s).
Note: Pareto Chart applies to individual ship selections only and covers 4 months ending with the period selected.

Main Menu:
Welcome
Introduction
BFM's

Histograms:

DataAnalysis:

BridgePlots:
CFT1/APR07

OTD Indicators:

SpreadSheets:
CFT1
COMET
P/E Pilot
Maint Team

Reports:

FeedBack:
E-Mail

Related Links:
NSWC Corona

ShipMain/CFT1 DataAnalysis

(Metric #1: Ship to Shore CT)

Period(YYMM): 0611
Ship: 21658: USS ANZIO (CG68)
MaintLvl: ALL

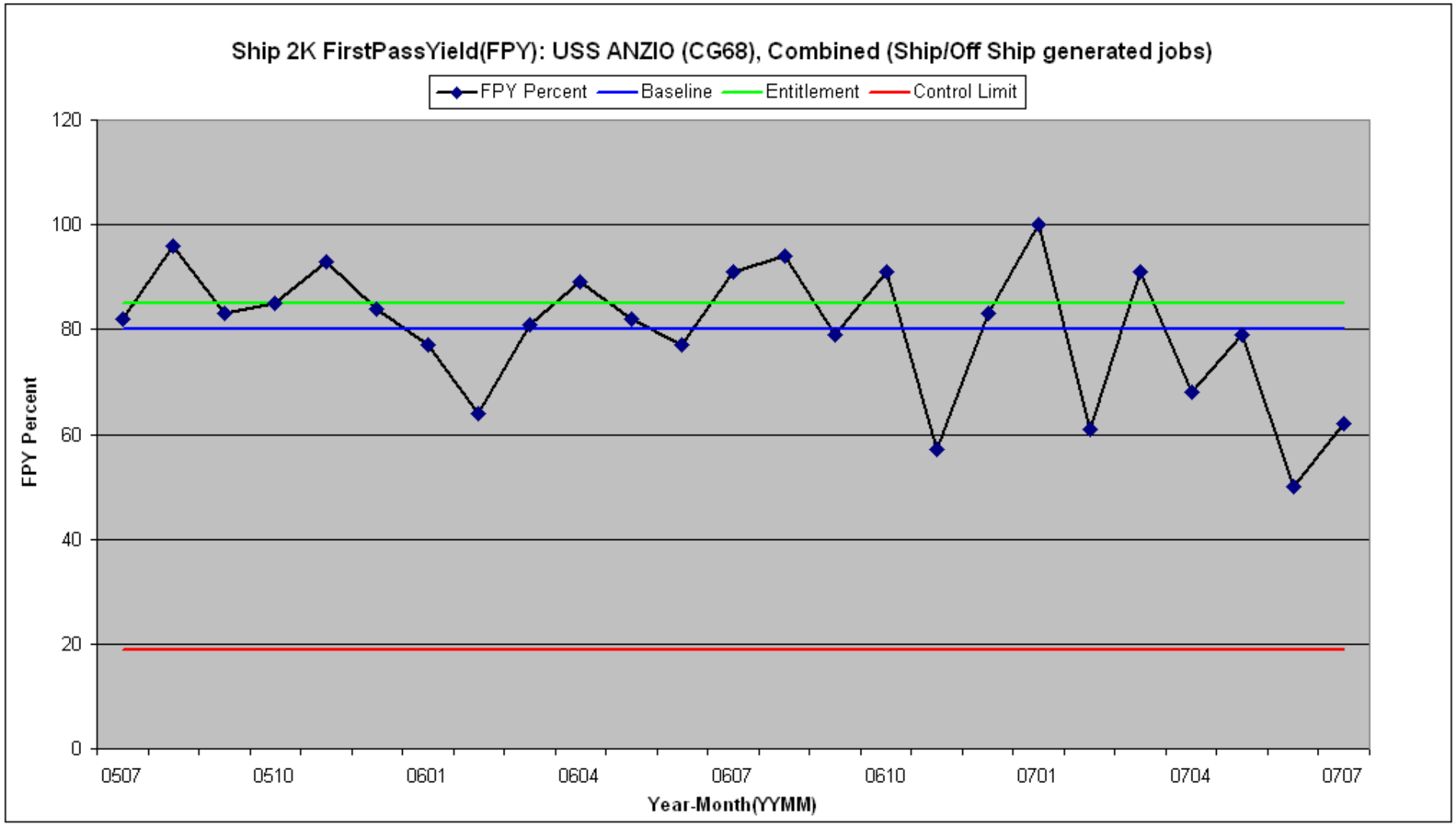
JCN	JobSummary	TA	Pri	FailDt	EnterDt	Days
CA02/2086	VESTIBULE PRC REPLACE/REPAIR	2	4	14-NOV-06	15-NOV-06	1
CA03/0882	LAGGING FOR CHILL WATER	2	4	10-NOV-06	13-NOV-06	3
CE03/0636	LAGGING IN ET SHOP #1	2	4	24-NOV-06	30-NOV-06	6
CE04/1922	03-289-2-L CHW LAGGING	2	4	20-NOV-06	30-NOV-06	10
CF01/6407	WORN AND DAMAGED LAGGING	2	3	27-OCT-06	03-NOV-06	7
CF01/6408	WORN AND MISSING LAGGING	2	3	27-OCT-06	03-NOV-06	7
CF01/6424	DETERIORATING LAGGING	2	4	21-NOV-06	30-NOV-06	9
CF02/2088	UNABLE TO ESTABLISH LINK 11	3	2	27-OCT-06	03-NOV-06	7
CF02/2089	REPTURED FEED WATER PIPE	2	3	29-OCT-06	03-NOV-06	5
CF02/2114	REMOVE AND REPLACE LAGGING	2	4	27-NOV-06	30-NOV-06	3
CF04/0147	MT FAILS SOT 4	2	4	03-NOV-06	07-NOV-06	4
CG01/0072	EMERGENCY SKIP BOX OUT OF CAL	2	3	29-SEP-05	30-NOV-06	427
CG01/0073	EMERGENCY SKIP BOX OUT OF CAL	2	3	29-SEP-05	30-NOV-06	427
CSE1/0237	SRQ-4 NOT UPLINK/DOWNLINK	3	4	03-NOV-06	07-NOV-06	4
CSE1/0247	PIPING REQUIRES RELAGGING	2	4	24-NOV-06	30-NOV-06	6
EA04/3822	100/50REDUCING STATION LAGGING	2	4	28-OCT-06	03-NOV-06	6
EA04/3823	#5 HOT WATER HEATER LAGGING	2	4	28-OCT-06	03-NOV-06	6
EA04/3824	#3 HOT WATER HEATER LAGGING	2	4	28-OCT-06	03-NOV-06	6
EA04/3825	1ST DIVISION FAN ROOM	2	4	28-OCT-06	03-NOV-06	6
EA04/3826	LAGGING ON #2 STEAM RED. STA.	2	4	28-OCT-06	03-NOV-06	6
EA04/3827	LAGGING ON #3 REDUCING STATION	2	4	28-OCT-06	03-NOV-06	6

Metric #3: Ship 2K FPY for Lant/Pac Fleet Ships

Period: Jul-2007
Fleet: ALL **and/or**
(HomePort: **or**
ISIC: **and/or**
ShipClass: **) or**
Ship: ANZIO (CG68)
MaintLvl: ALL
JobSource: ALL(Ship/Off-Ship) ?

Export Report | Create Report | Create PieChart | Create Pareto | Cancel

Note: HomePort/ShipClass and Individual Ship selections are mutually exclusive. If not selecing an individual ship, recommend select a HomePort and/or ShipClass.
Note: Pareto Chart applies to individual ship selections, only.



ShipMain/CFT1 DataAnalysis

Metric #3: Ship 2K FirstPassYield(FPY)

Period(YYMM): 0707
Ship: 21658: USS ANZIO (CG68)
MaintLvl: ALL
JobSource: All Jobs (Ship/Off-Ship Generated)

						Job Changes								
	JCN	JobSummary	TY	Avl	ScreenDt	APL	LOC	ENN	ESN	HSC	SUM	DES	SAF	RET
	CA01/1819	RUPTURED PIPE	2	8A1	24-JUL-07									X
	CA01/1823	DIVER SUPPORT REQ FOR DOME DIV	3	7CM	17-JUL-07									
	CA01/1824	BAD TRANSFORMER	3	7CM	23-JUL-07									
	CA01/1825	GEARBOX REQUIRES MAINTENANCE	2	8A1	23-JUL-07									
	CA01/1826	REPLACE SWITCH DURING DOME DIV	3	7CM	23-JUL-07									
	CA01/1827	REPLACE SONAR DOME FULL SWITCH	3	7CM	23-JUL-07									
	CA03/0924	TUBES WILL NOT TRAIN OUT	2	7CM	16-JUL-07									
	CA03/0932	STRIKEDOWN LIMIT SWITCH REPAI	3	7CM	26-JUL-07									
	CA03/0933	HIGH PRESSURE AIR GAUGE NEARIN	2	7CM	26-JUL-07									
	CA03/0934	HIGH PRESSURE AIR GAUGE NEARIN	2	7CM	26-JUL-07									
	CA03/0935	HIGH PRESSURE AIR GAUGE NEARIN	2	7CM	26-JUL-07									
	CG02/0185	ROS ZOOM FAULTY	3	7CM	11-JUL-07									
	CM02/0152	FWD VLS Uptake refurbishment	1	7C1	26-JUL-07							X		
	EA01/0151	3RD STG PISTON RING BUSTED	3	7EM	02-JUL-07						X			
	EA01/Y004	Helo Hanger Door Repair	1	8CM	16-JUL-07	X	X							
	EA04/3923	DUMBWAITER DOOR FAILURE	3	7CM	02-JUL-07									
**	EA04/H507	STEERING GEAR ELHYD RAPSON SLI	1	8CM	25-JUL-07									
**	EA04/ZA77	RAST PLATES, TROUGH - CLN/INSP	1	8CM	25-JUL-07						X	X		
	EA04/ZA82	(M)STBD BOAT DAVIT - LD TST	2	8A2	26-JUL-07									

USS ANZIO (CG68)
JCN: **21658EA01Y004**

JobSummary: Helo Hanger Door Repair
EquipNounNm: HELO HANGER DOOR
EquipSerNbr: 03-327-1
APL: 319990011
EIC: AD01700
Location: 02-292-0-Q
ESWBS: 16811
Pri: 2 **SafHaz**: -
WSCD: 0000 **TA/TY**: 4/1
MFOM: 039
WhnDscDt: 16-Jul-07
DeferDt: 16-Jul-07
UplineDt: 16-Jul-07 (Manually key entered at local site)
DeadlineDt: Missing

Problem Description:

Helo Hanger doors require repair for AVCERT. Door inspected by Pat Ryals, repair recommendations provided; XXX Request Helo hanger door repair as per NSWCCD report tosupport AVCERT inspection; [CDMD Not Matched]

ReturnDt: n/a
JobState: 16-Jul-07 - Referred
AvlNbr: 8CM (01-Oct-07 thru 30-Sep-08)
MAUIC: ----- Not Assigned
CompDt: **ActTkn**: -

Job Change History:

ChgDt	Field	Changed By
16-Jul-07	HSC	Kral, Paul

From: blank

Main Menu:
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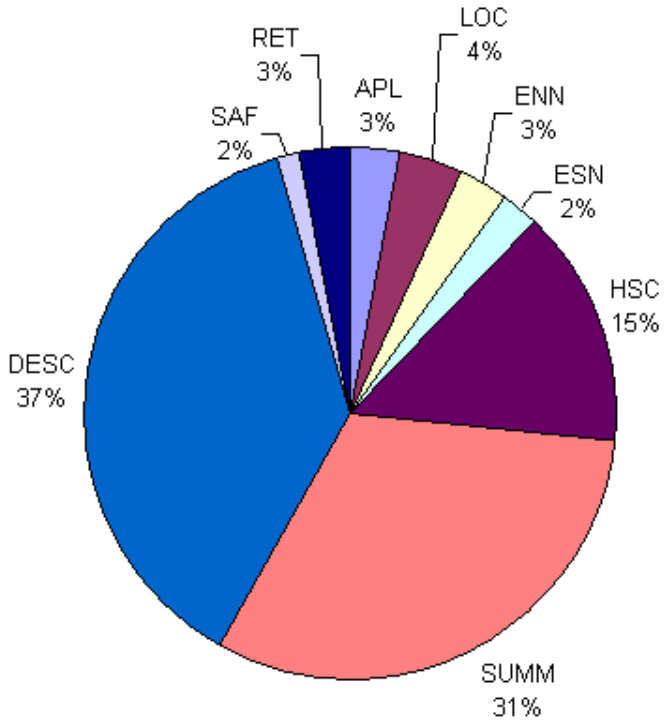
SpreadSheets:
CFT1
COMET
P/E Pilot
Maint Team

Reports:

FeedBack:
E-Mail

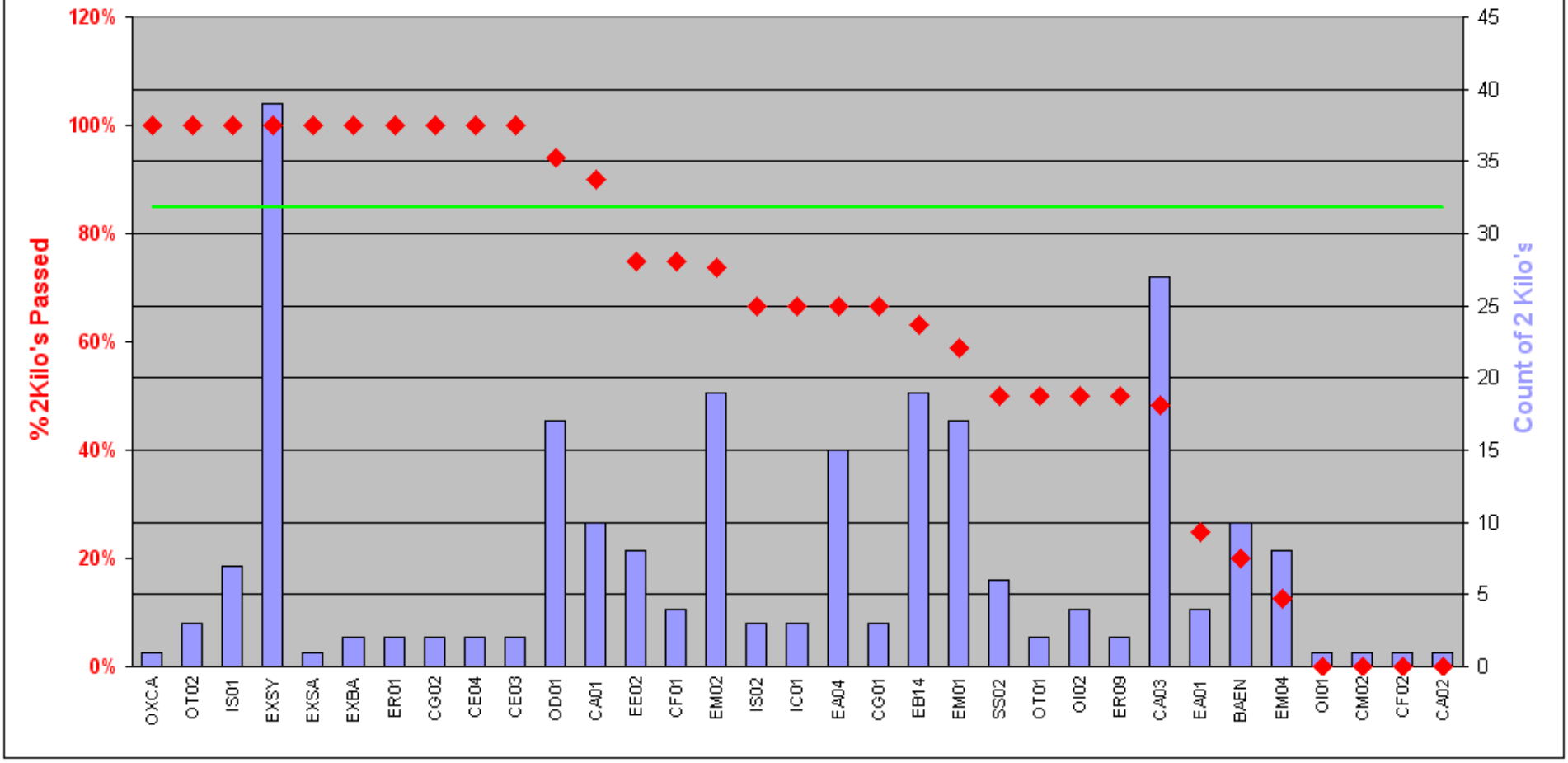
Related Links:
NSWC Corona

Ship 2K FirstPassYield(FPY): USS ANZIO (CG68)
[Period: 0702 to 0707]

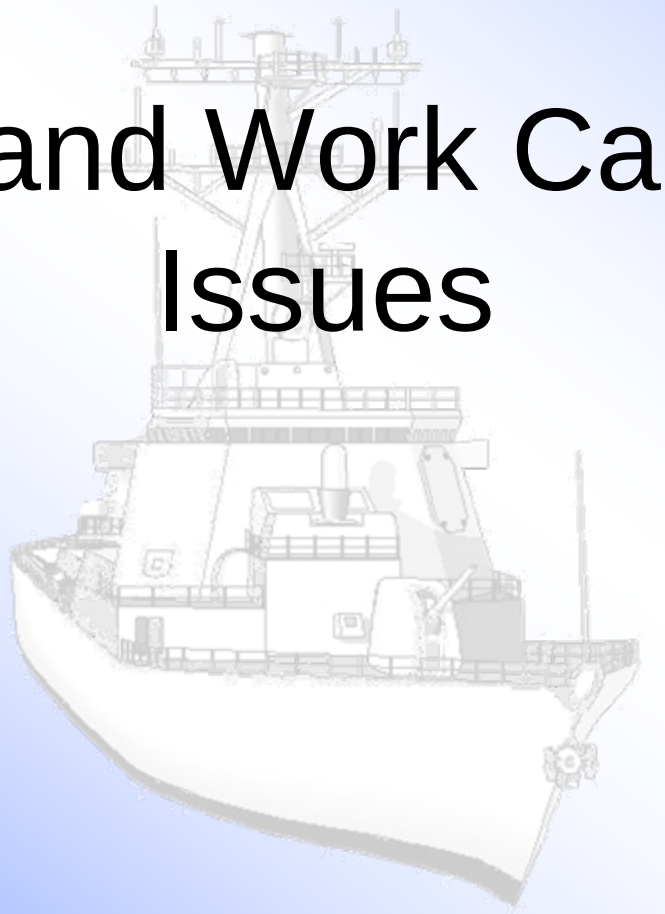


FPY PieChart

USS ANZIO (CG68) FPY HISTOGRAM
APR-07 through JUL-07



CSMP and Work Candidate Issues



CSMP PROBLEMS / ISSUES

- INACCURATE/INCOMPLETE Work Cand
- INCORRECT MFOM
- VALID WORK NOT DOCUMENTED
- INVALID WORK IN CSMP
- COMPLETED WORK NOT BEING CLOSED OUT
- SHIP'S CSMP NOT SAME AS SHORE CSMP
- DUPLICATES

WC PROBLEMS / ISSUES

- INCORRECT CONFIG BLOCKS
  - IMPROPER USE OF SCLSIS
  - INACCURATE SCLSIS DATABASE
  - USE OF PARENT OR WRONG APL
  - WRONG EQUIPMENT NOUN/SYSTEM
- INACCURATE / INCOMPLETE PROB DESCRIPTION /SOLUTION BLOCK
  - PROBLEM NOT DEFINED
  - MULTIPLE BUT NOT RELATED ISSUES
  - REQUESTED SOLUTION INADEQUATE OR INCONSISTENT WITH PROBLEM

WC's Most Important Data Field

1. Allowance Parts List (APL)
2. * SWLIN / HSC (automatically entered w/ correct APL)
3. * Priority
4. * Equipment / System Status
5. Problem description / solution
6. * Type of availability

*Red - Used in MFOM calculation / SF modified fields

Remaining fields still MUST be filled out

Don’t use X-RIC APL Numbers for convenience

XSERVICE-- For off ship services

XCOMPARTMENT-- for work in the compartment ie decking ,lagging.painting

XSYSTEM-- for systems not covered by an apl or ael, ie grounding and bonding straps

DO NOT USE XCOMPARTMENT FOR EQUIPMENT!

Equipment Identification

- Correct equipment identification is essential
  - The item on which maintenance will be performed
    - Must have related configuration attribute for the item to search OMMS-NG database
      - Hierarchical Structure Code (HSC/SWLIN)
      - Allowance Parts List (APL) number
      - Equipment Functional Description (EFD)
      - Equipment Serial Number
      - Equipment Location

Equipment Identification

- Two most common attributes for identification
  - APL number
    - Identifies <u>specific</u> equipment; e.g. – Worthington motor-driven, 500 GPM centrifugal pump ***(e.g. what it physically is)***
  - Hierarchical Structure Code (HSC)
    - Identifies the item by function aboard ship; e.g. – No. 1 Fire Pump ***(e.g. what it does)***
    - HSC an element of Ship Work Line Item Number (SWLIN)
- Both have "family" relationships that affect the attribute
  - APL "parent – child": pump, impeller
  - HSC: system, sub-system, equipment
  - <u>Must</u> ensure that attributes are correct

Very important!!

Functional Identification Top-Down Breakdown Concept

(HM&E System Example)

	FUNCTIONAL GROUP CODE	FUNCTIONAL NOMENCLATURE
	260	Propulsion Support System (Fuel and Lube Oil)
	261	Fuel Service System
	2611	Piping & Miscellaneous Fuel Service
SWLIN →	26111	Piping & Misc. Fuel Service, Shaft No. 1
	26112	Piping & Misc. Fuel Service, Shaft No. 2
	2612	Pumps, Fuel Service
	26121	Pumps, Fuel Service, Shaft No.1
	261211	Fuel Service Pump No.1A
	2612111	Pump
	2612112	Motor
	2612113	Controller

0-General 1-Hull 2- Propulsion 3-Electric 4-Command and Surveillance 5-Auxiliary 6-Outfitting and Furnishing 7-Armament 8-Engineering Services 9-Support Services

Functional Identification
Top-Down Breakdown Concept
(HM&E System Example)

	FUNCTIONAL GROUP CODE	FUNCTIONAL NOMENCLATURE
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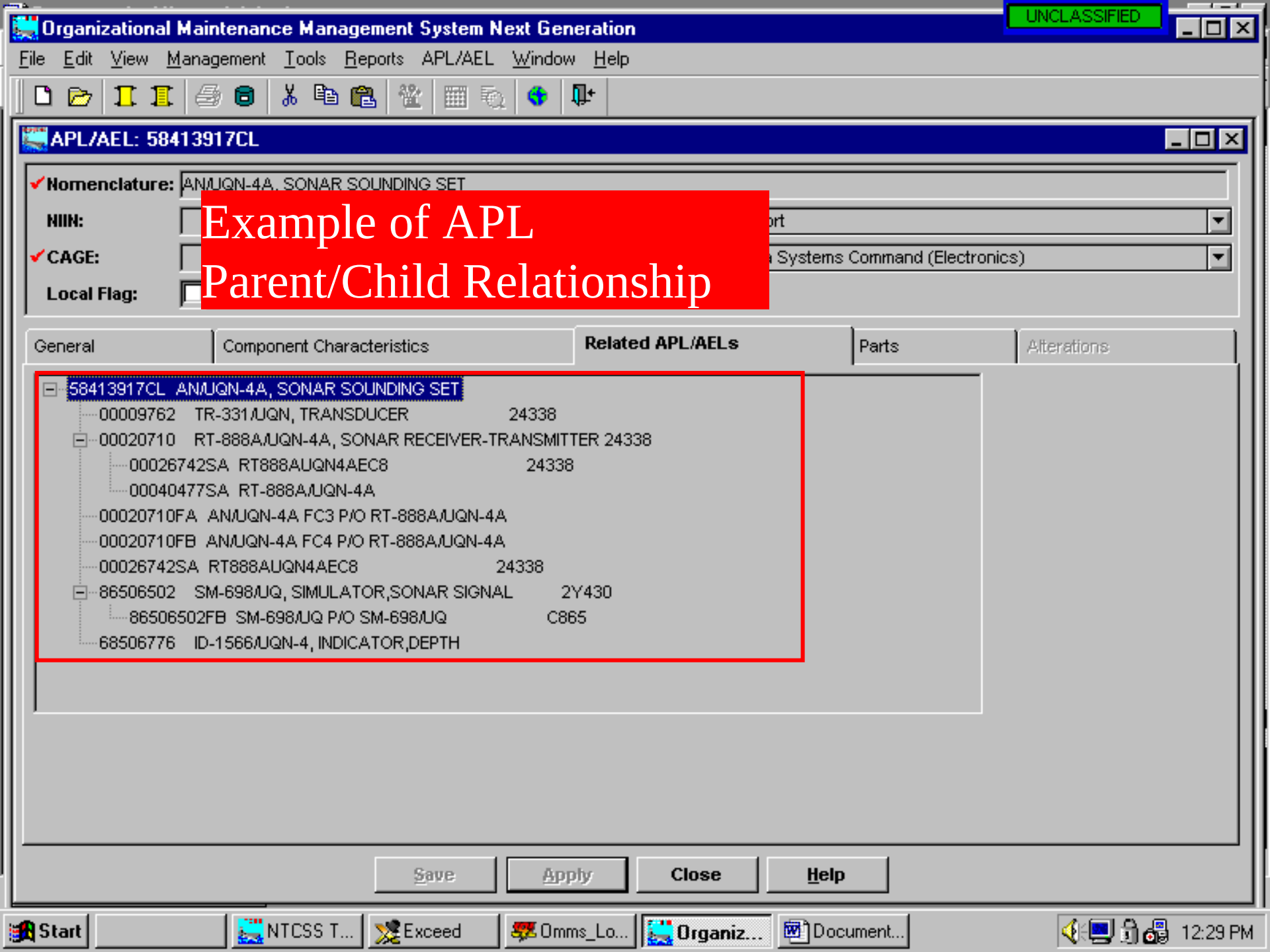
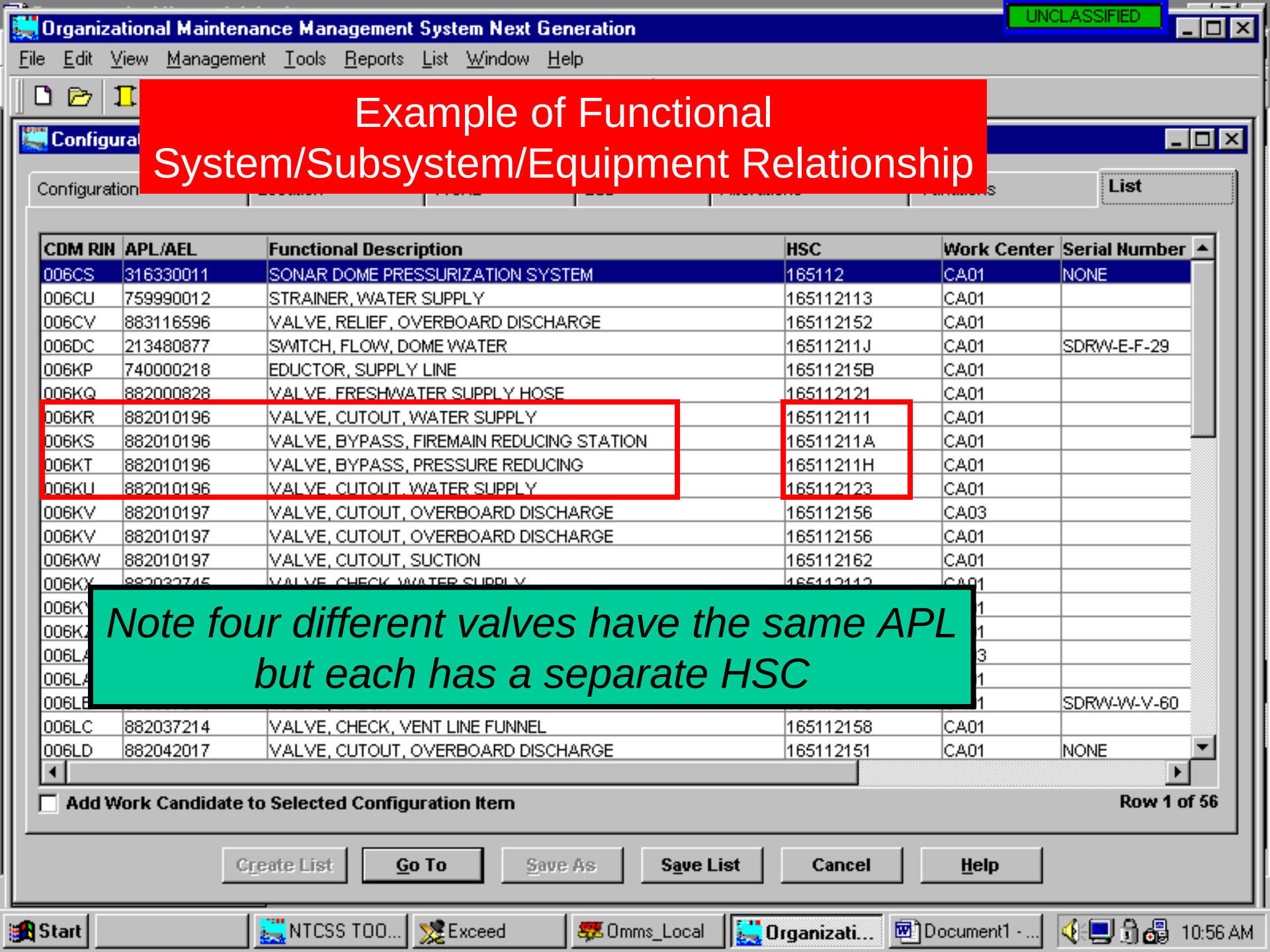
	261	Fuel Service System
	2611	Piping & Miscellaneous Fuel Service
SWLIN →	26111	Piping & Misc. Fuel Service, Shaft No. 1
	26112	Piping & Misc. Fuel Service, Shaft No. 2
	2612	Pumps, Fuel Service
	26121	Pumps, Fuel Service, Shaft No.1
HSC →	261211	Fuel Service Pump No.1A
	2612111	Pump
	2612112	Motor
	2612113	Controller
	2612114	Coupling


UNCLASSIFIED
Organizational Maintenance Management System Next Generation
File Edit View Management Tools Reports APL/AEL Window Help
APL/AEL: 58413917CL
Nomenclature: AN/UQN-4A, SONAR SOUNDING SET
NIIN:
CAGE:
Local Flag:
Systems Command (Electronics)
Example of APL
Parent/Child Relationship
General
Component Characteristics
Related APL/AELs
Parts
Alterations
58413917CL AN/UQN-4A, SONAR SOUNDING SET
00009762 TR-331/UQN, TRANSDUCER 24338
00020710 RT-888A/UQN-4A, SONAR RECEIVER-TRANSMITTER 24338
00026742SA RT888AUQN4AEC8 24338
00040477SA RT-888A/UQN-4A
00020710FA AN/UQN-4A FC3 P/O RT-888A/UQN-4A
00020710FB AN/UQN-4A FC4 P/O RT-888A/UQN-4A
00026742SA RT888AUQN4AEC8 24338
86506502 SM-698/UQ, SIMULATOR,SONAR SIGNAL 2Y430
86506502FB SM-698/UQ P/O SM-698/UQ C865
68506776 ID-1566/UQN-4, INDICATOR,DEPTH
Save
Apply
Close
Help
Start
NTCSS T...
Exceed
Omms_Lo...
Organiz...
Document...
12:29 PM


Organizational Maintenance Management System Next Generation
UNCLASSIFIED
File Edit View Management Tools Reports List Window Help
Example of Functional System/Subsystem/Equipment Relationship
Configuration
List
CDM RIN | APL/AEL | Functional Description | HSC | Work Center | Serial Number
006CS | 316330011 | SONAR DOME PRESSURIZATION SYSTEM | 165112 | CA01 | NONE
006CU | 759990012 | STRAINER, WATER SUPPLY | 165112113 | CA01 |
006CV | 883116596 | VALVE, RELIEF, OVERBOARD DISCHARGE | 165112152 | CA01 |
006DC | 213480877 | SWITCH, FLOW, DOME WATER | 16511211J | CA01 | SDRW-E-F-29
006KP | 740000218 | EDUCTOR, SUPPLY LINE | 16511215B | CA01 |
006KQ | 882000828 | VALVE, FRESHWATER SUPPLY HOSE | 165112121 | CA01 |
006KR | 882010196 | VALVE, CUTOUT, WATER SUPPLY | 165112111 | CA01 |
006KS | 882010196 | VALVE, BYPASS, FIREMAIN REDUCING STATION | 16511211A | CA01 |
006KT | 882010196 | VALVE, BYPASS, PRESSURE REDUCING | 16511211H | CA01 |
006KU | 882010196 | VALVE, CUTOUT, WATER SUPPLY | 165112123 | CA01 |
006KV | 882010197 | VALVE, CUTOUT, OVERBOARD DISCHARGE | 165112156 | CA03 |
006KV | 882010197 | VALVE, CUTOUT, OVERBOARD DISCHARGE | 165112156 | CA01 |
006KW | 882010197 | VALVE, CUTOUT, SUCTION | 165112162 | CA01 |
Note four different valves have the same APL but each has a separate HSC
006LC | 882037214 | VALVE, CHECK, VENT LINE FUNNEL | 165112158 | CA01 |
006LD | 882042017 | VALVE, CUTOUT, OVERBOARD DISCHARGE | 165112151 | CA01 | NONE
Add Work Candidate to Selected Configuration Item
Row 1 of 56
Create List
Go To
Save As
Save List
Cancel
Help
Start
NTCSS TOO...
Exceed
Omms_Local
Organizati...
Document1 - ...
10:56 AM

Good Work Candidates

Problem Description / Repair Recommendation block

The time taken filling out these fields will pay dividends in getting the correct maintenance action accomplished, when it makes sense to effect the repair , while applying the proper sense of urgency.

You have 1,200 characters to work with so use as many words as you need. Enter a description of what is known (and only what is known) of the problem and the solution. The remarks should not include statements explaining what has been coded already in another place of the WC form; i.e., “While performing PMS… (this is already coded in the “When discovered block)”.

Good Work Candidates

PROBLEM STATEMENT

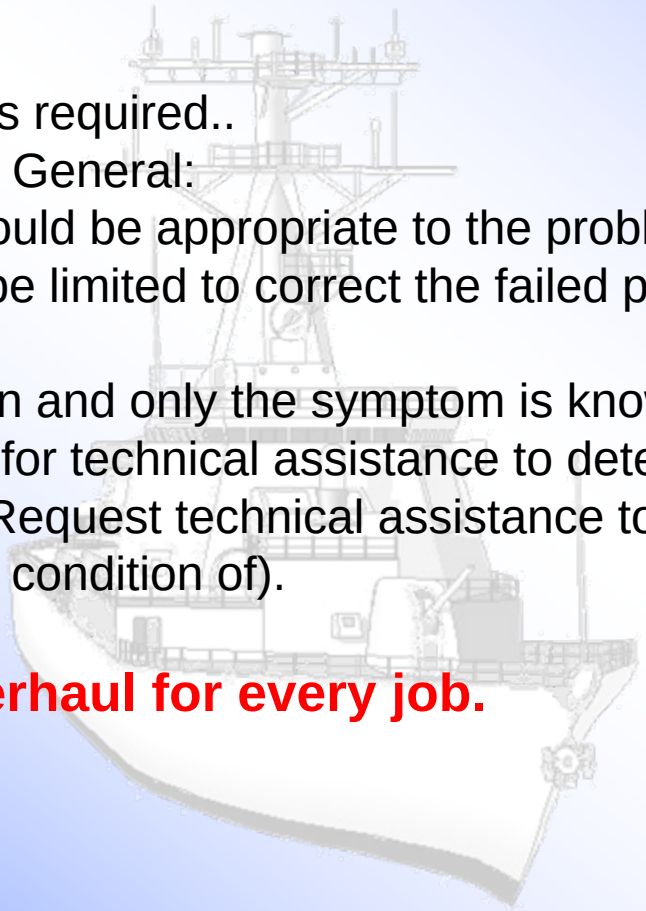
- Clear and complete problem statement is required. Identify the equipment to be repaired using commonly recognized terms
- **The severity of the problem and the urgency of repair must be addressed**. Include information concerning redundancy, for example, “one of six pumps down or two of three units not available for use.” To provide the correct sense of urgency of repair, describe the loss of capability as a result of this component failure and a "specific" operational commitment that this equipment or system is required to support and when is it scheduled, and provide dates (CART, etc).
- If you intend to or want to have this job done during a particular availability request specific time frame or availability. For example, “Request that this job be planned for during next SRA or request during next CM avail April 6-20”.
- If the **direct cause** is known, that is, if what part failed or is about to fail is known, it should be described. Example: "Coupling failed".

Good Work Candidates

- If the direct cause is unknown and only the symptom (the "gripe") is known, only the symptom should be described. Example: "Pump vibrates excessively". - Provide applicable as found compared to design information such as temperature, pressure, current, or other parameters if the equipment is still functioning.
- Actual operating parameters, pressure, temperature, voltage, etc., and those required by PMS, EOSS, Tech Manual, NSTM, etc. (Pump seal is leaking at ___ drops per minute/steady stream.)
- Include any diagnostic tests performed and results.
- Is there any history associated with this system or equipment that would be useful to the maintenance community (3rd failure in last year, 4th time S/F has brazed pipe)
- **If this is a weight test, PMS requirement, etc. give the <u>full</u> MIP number, date last accomplished (from test documentation, tag, etc) and expiration or due date.**
- If there are other jobs that apply reference them by JCN.
- Use a 2Lima or digital photograph if it will make the job easier to understand. **<u>Highly recommended.</u>**

Good Work Candidates

Problem Solution and Repair Statements



- Clearly state what work is required..
- REPAIR STATEMENT – General:
- The repair requested should be appropriate to the problem. If the direct cause is known, the repair should be limited to correct the failed part. Example: "Replace the coupling".
- If the problem is unknown and only the symptom is known, then the appropriate repair would be a request for technical assistance to determine the direct cause of the problem. Example: "Request technical assistance to Trouble Shoot", (or more properly, assess the condition of).

Do not request an overhaul for every job.

Good Work Candidates

• **Be realistic.** If there is a reason that the ship can not do the job, say so. If the job would be routinely classified as “ships force capable” ensure a statement is included in Block 35 that states: “The SMMO and Port Engineer have determined this job is beyond ships force capacity and because of its urgency should be accomplished by an outside maintenance activity because …”

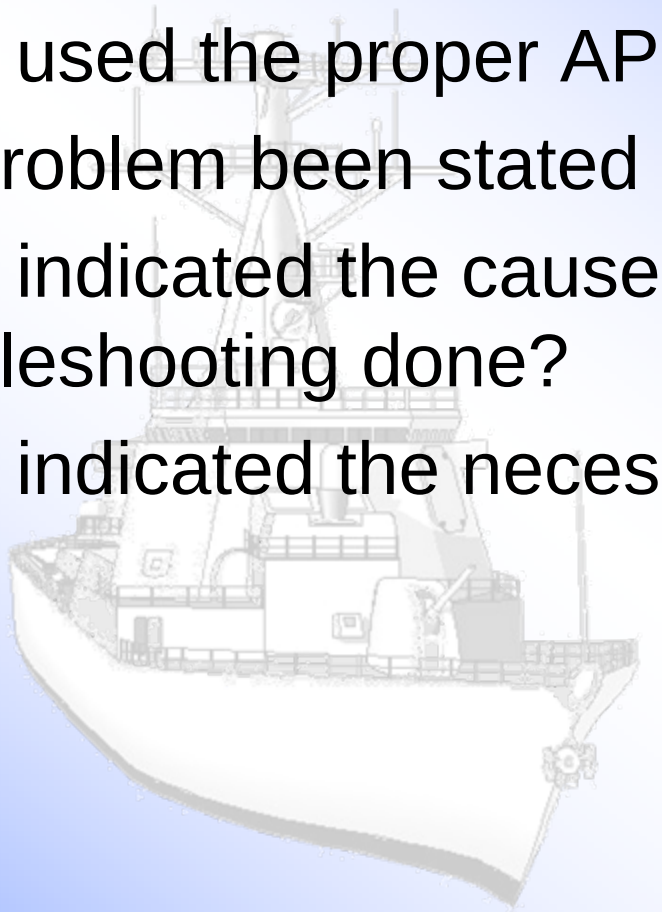
• Any material that is to be provided by the ship, and how it will be provided to the repair facility.

• Work candidates should address responsibilities as required. In some regions may require a separate work candidate to accomplish one of the below listed actions:

Removal (or repair in place),
Removal and replacement of interferences,
Rigging on and off the ship,
Transport from and return to the ship,
Re-installation and alignment,
Cosmetic repairs to surrounding area,
Testing, and System restoration

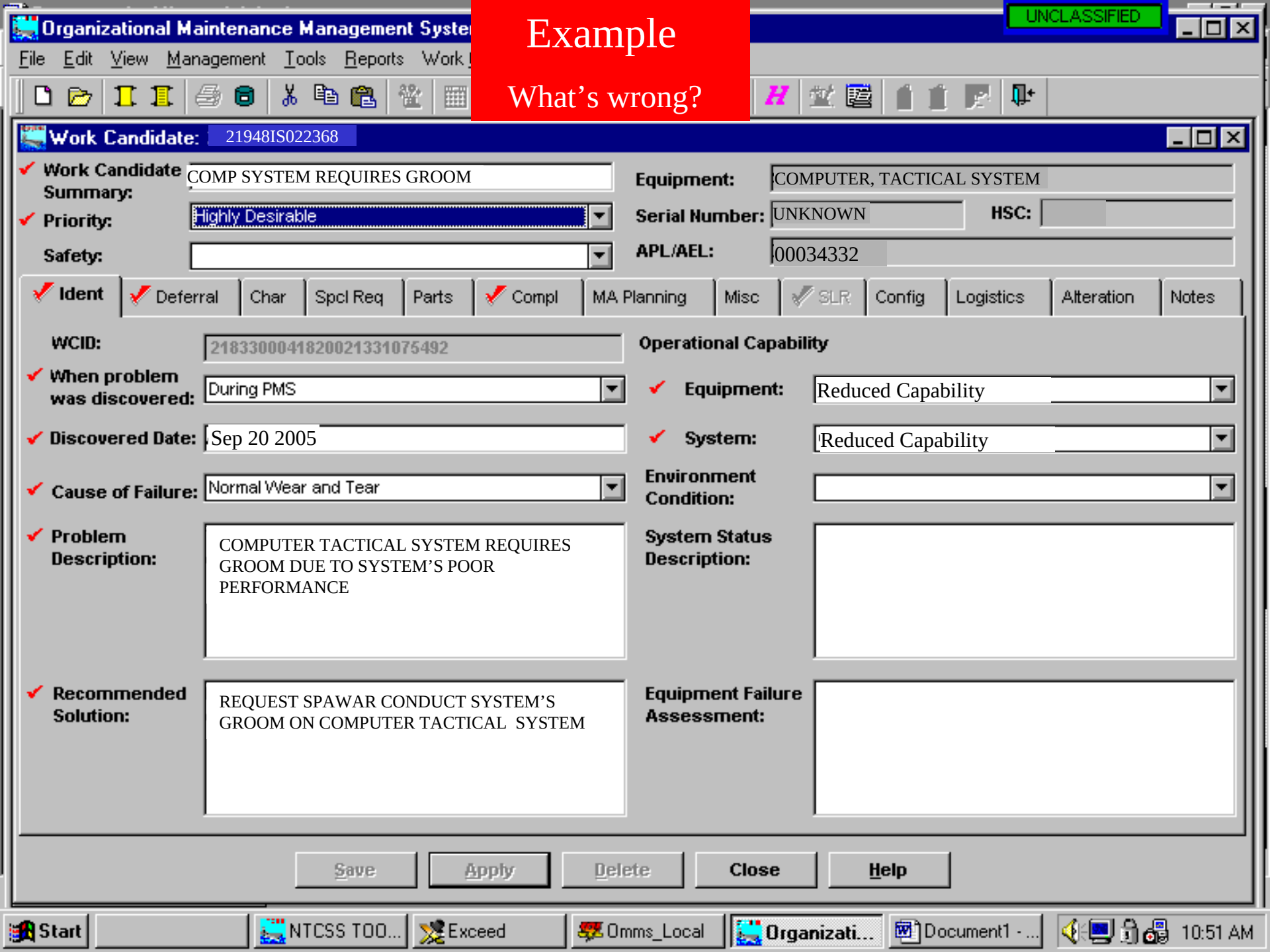
WC CHECK LIST

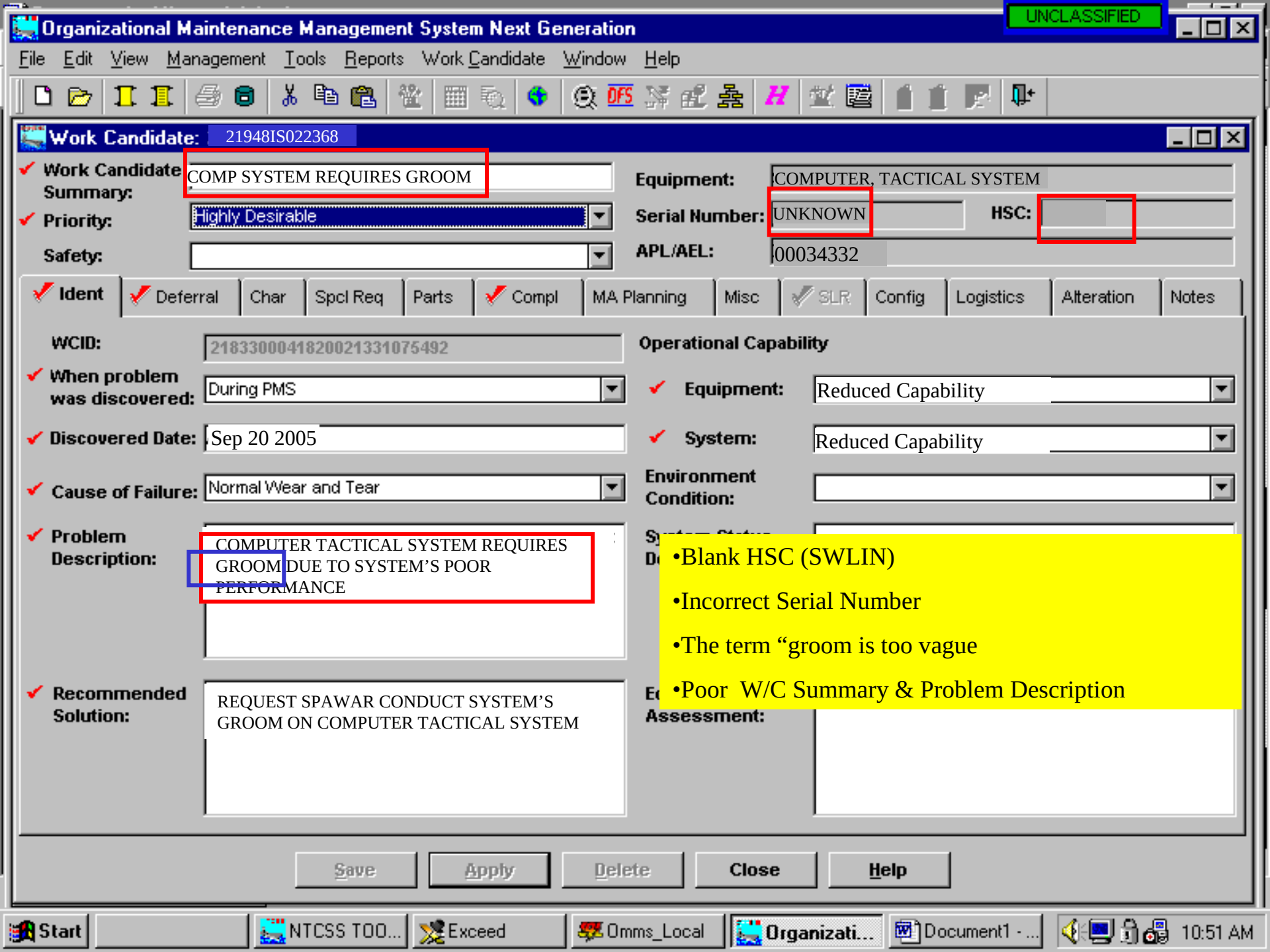
- Have you used the proper APL / SWLIN?
- Has the problem been stated correctly?
- Have you indicated the cause of the failure? Any troubleshooting done?
- Have you indicated the necessary corrective action?



WC CHECK LIST

- Does your problem definition provide the reason for requesting repair?
- Have you identified and included info re: interferences, size, color scheme, etc.
- Have you included, in detail, all associated work that must be done to accomplish the work?
- Do you have a supporting 2L?
- Have you included actual or addtl repairs besides what was originally requested for?


Example
What's wrong?
UNCLASSIFIED
Organizational Maintenance Management Syste
File Edit View Management Tools Reports Work
Work Candidate: 21948IS022368
Work Candidate Summary: COMP SYSTEM REQUIRES GROOM
Priority: Highly Desirable
Safety:
Equipment: COMPUTER, TACTICAL SYSTEM
Serial Number: UNKNOWN
HSC:
APL/AEL: 00034332
Ident Deferral Char Spcl Req Parts Compl MA Planning Misc SLR Config Logistics Alteration Notes
WCID: 21833000418200213310754 92
When problem was discovered: During PMS
Discovered Date: Sep 20 2005
Cause of Failure: Normal Wear and Tear
Problem Description: COMPUTER TACTICAL SYSTEM REQUIRES GROOM DUE TO SYSTEM'S POOR PERFORMANCE
Recommended Solution: REQUEST SPAWAR CONDUCT SYSTEM'S GROOM ON COMPUTER TACTICAL SYSTEM
Operational Capability
Equipment: Reduced Capability
System: Reduced Capability
Environment Condition:
System Status Description:
Equipment Failure Assessment:
Save Apply Delete Close Help
Start NTCSS TOO... Exceed Omms_Local Organizati... Document1 - ... 10:51 AM


UNCLASSIFIED
Organizational Maintenance Management System Next Generation
File Edit View Management Tools Reports Work Candidate Window Help
Work Candidate: 21948IS022368
Work Candidate Summary: COMP SYSTEM REQUIRES GROOM
Priority: Highly Desirable
Safety:
Equipment: COMPUTER, TACTICAL SYSTEM
Serial Number: UNKNOWN
HSC:
APL/AEL: 00034332
Ident Deferral Char Spcl Req Parts Compl MA Planning Misc SLR Config Logistics Alteration Notes
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Recommended Solution: REQUEST SPAWAR CONDUCT SYSTEM'S GROOM ON COMPUTER TACTICAL SYSTEM
Operational Capability
Equipment: Reduced Capability
System: Reduced Capability
Environment Condition:
Assessment:
•Blank HSC (SWLIN)
•Incorrect Serial Number
•The term "groom is too vague
•Poor W/C Summary & Problem Description
Save Apply Delete Close Help
Start NTCSS TOO... Exceed Omms_Local Organizati... Document1 - ... 10:51 AM

What Makes An Effective Work Candidate?

- Correct Equipment Data Elements; ie: APL, HSC (SWLIN), Location, Serial Number, EFD, ENN
- Proper CSMP Summary – Just what is wrong
- Accurate Problem Description/Solution
  - DETAILS (The devil is in the details ! ! !)
  - Technical Documentation is provided
    - Drawing number,
    - TechMan number,
    - MIP/MRC info,
    - Technical Message Announcement or Notice
- Appropriate Codes are used; ie: Priority, Operational Capability (Equipment Status), Maintenance Level (T/A), Deadline Date

Bottom Line

- Could YOU, by simply viewing the work candidate
  - Plan the work required
  - Determine manpower needed
  - Find tech manual, plans, drawings
  - Order material from APL, EIC
  - Determine time needed
  - …WITHOUT further ship check?
- Create work candidate with planners in mind