

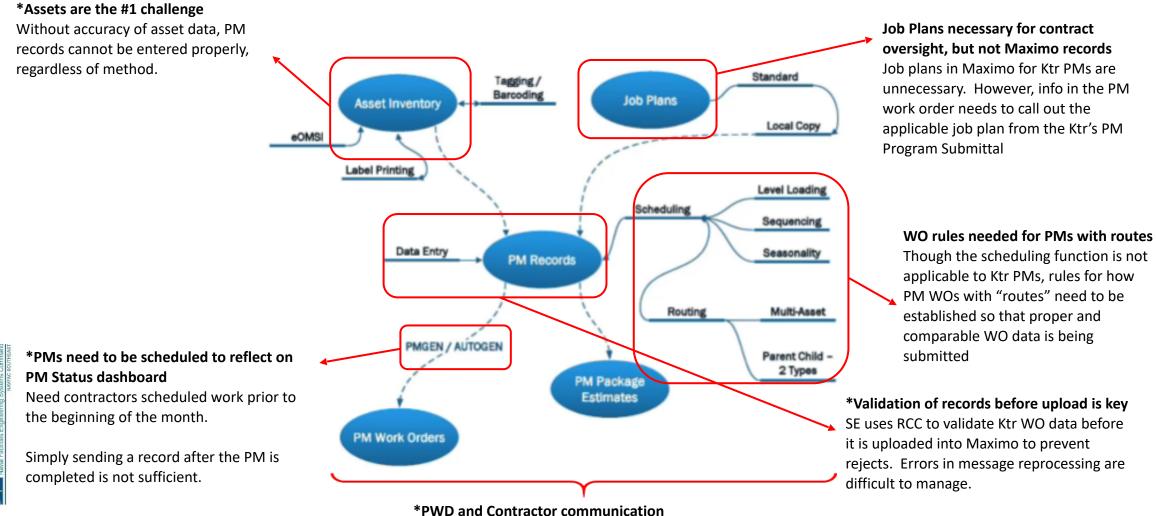
Performance Metrics and MAXIMO Data Management

NAVFAC SE Industry Day

09 DEC 2024



Challenges with getting accurate WO data



r communication

None of this process works effectively unless there is active communication to support access, provide guidance, monitor data, troubleshoot errors, etc. Contractor, COR and RBH all receive notification of rejects.

Flat File Work Order Data

Basic Flat File process

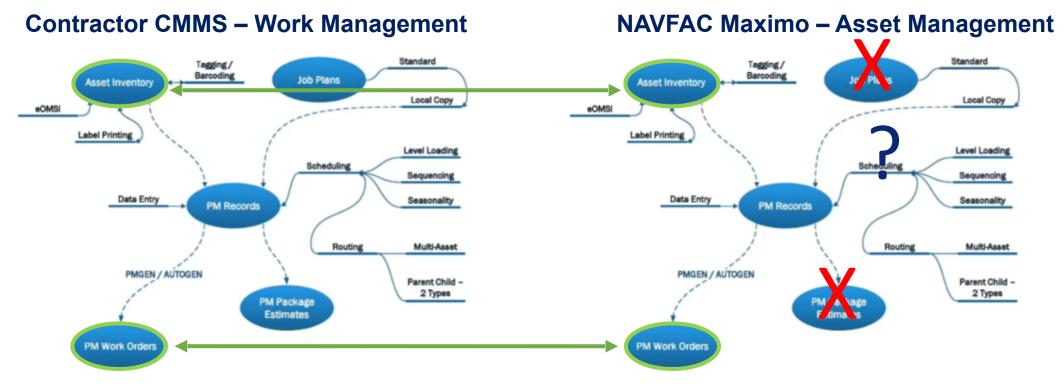
- Contractor submits Flat File to RCC daily (scheduled PMs, status changes/updates)
- Automated process to update tables in Validation Tool (from COGNOS reports)
- RCC runs Flat File through Validation Tool, rejects sent to Contractor, COR, and FEC PM
- RCC uploads accepted Flat File into Maximo
- Rejects resolved based on cause, Contractor will resubmit WO update in next batch
- Maximo PM periodically checks Maximo message reprocessing for any upload failures

Benefits of Flat File Validation Process

- Greatly reduces contractor effort to enter data and eliminates potential for dual entry errors
- Provides visibility in NAVFAC Maximo to the contractor's planned work
- Improved quality control over the data through the validation tool, including options to implement business rules for data acceptance



Maximo Entry of Contracted PMs



- Methods of PM WO Data Entry
 - Flat File monthly "scheduled" PMs and status updates
 - Direct Entry
 - Build schedule in NAVFAC Maximo to generate PM WOs
 - Flat File scheduled PMs, DE status updates
 - Monthly DE of scheduled PMs, regular DE for status updates

Maximo Entry of Contracted PMs

Flat File

- Pros
 - Ktr manages using own CMMS
 - Validation provides some automated QC of data and business rules
 - Govt visibility in Maximo for monthly scheduled WOs
- Cons
 - Routine Govt labor to process FF
 - Govt & Ktr effort to reconcile WO rejects

Direct Entry – FF schedule, DE updates

- Pros
 - Ktr manages using own CMMS
 - Govt visibility in Maximo for monthly scheduled WOs
- Cons
 - Limited Govt labor to process FF
 - Ktr labor for dual entry updates
 - Some Govt QC for WO closeout

Direct Entry – schedule in PM Module

- Pros
 - Govt visibility in Maximo for complete PM schedule
 - No Govt labor for processing data
- Cons
 - Ktr must transfer WOs to own CMMS or duplicate PM WO generation
 - Ktr labor for dual entry updates
 - Some Govt QC for WO closeout

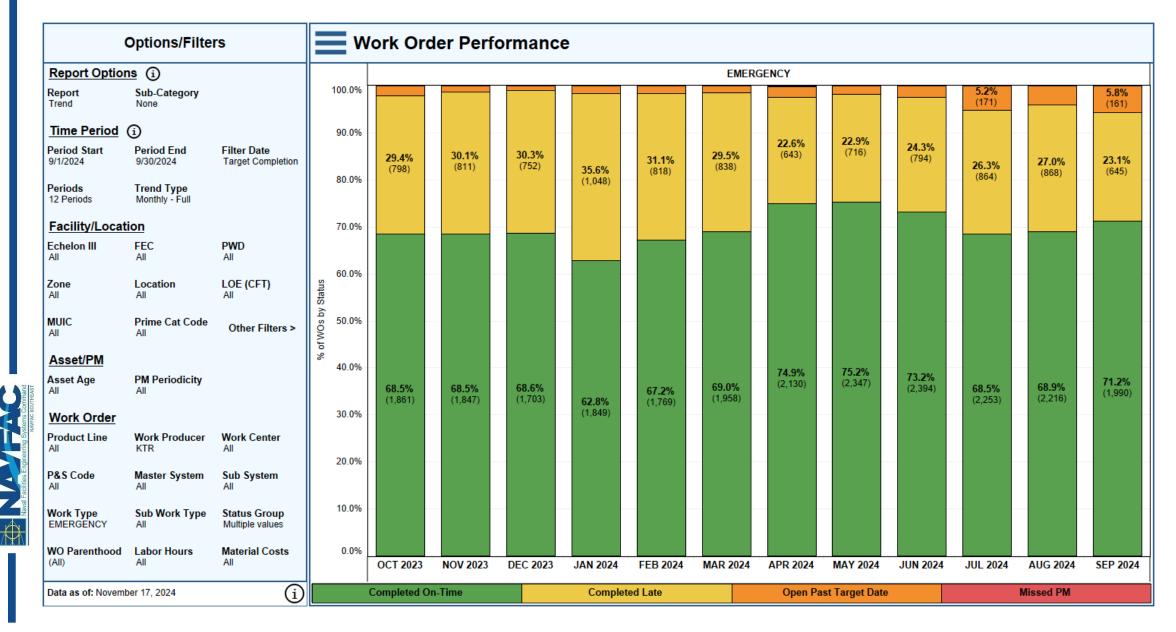
Direct Entry – generate via SR Module

- Pros
 - Ktr manages using own CMMS
 - No Govt labor for processing data
- Cons
 - Significant Ktr labor for dual entry
 - Limited visibility for scheduled PM WOs
 - Govt QC for all data entry

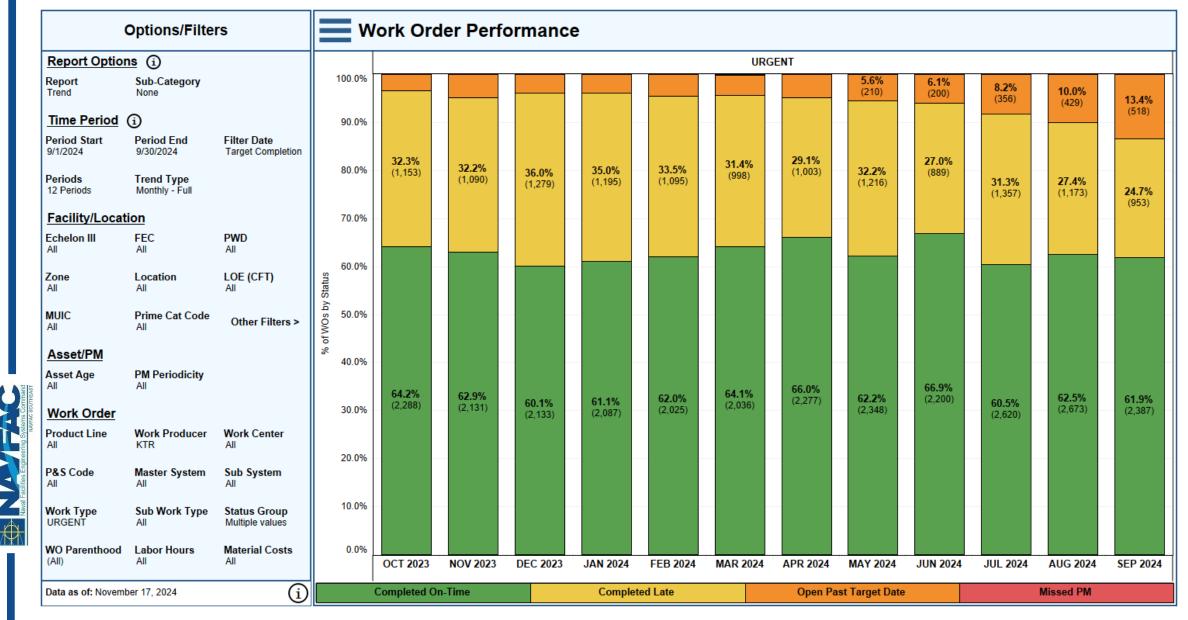
Emergency Response Time

	Options/Filte	rs	E	nergen	cy Resp	oonse R	ate								
Report Option	ns (i)		100.0%												
Report Trend	Sub-Category None		90.0%												
Time Period	(i)									24.5%					
Period Start 9/1/2024	Period End 9/30/2024	Filter Date Target Completion	80.0%	39.5% (1,049)	40.0% (1,063)	41.4% (1,015)	47.7%	43.1% (1,114)	39.8% (1,113)	34.5% (955)	36.6% (1,121)	35.9% (1,142)	43.6% (1,358)	43.1% (1,327)	39.0% (1,026)
Periods 12 Periods	Trend Type Monthly - Full		70.0%				(1,378)	(1,114)					(1,556)	(1,527)	
Facility/Locat	tion														
Echelon III All	FEC All	PWD All	E GO.0%												
Zone All	Location All	LOE (CFT) All	60.0% Kasov So.0%												
MUIC All	Prime Cat Code All	Other Filters >													
Asset/PM			Active A0.0%												
Asset Age All	PM Frequency Non-PM		ш ъ » 30.0% –	60.5%	60.0%	58.6%		50.00/	60.2%	65.5% (1,813)	63.4% (1,940)	64.1% (2,043)		50.00/	61.0%
Work Order			30.076	(1,606)	(1,592)	(1,437)	52.3%	56.9% (1,472)	(1,683)				56.4% (1,759)	56.9% (1,755)	(1,604)
Product Line All	Work Producer KTR	Work Center All	20.0%				(1,511)					_			
P&S Code All	Master System All	Sub System All													
Work Type Emergency	Sub Work Type All	Status Group All Completed	10.0%-												
WO Parenthood	Labor Hours	Material Costs	0.0%	OCT 2023	NOV 2023	DEC 2023	JAN 2024	FEB 2024	MAR 2024	APR 2024	MAY 2024	JUN 2024	JUL 2024	AUG 2024	SEP 2024
				SGT EVES											
Data as of: Novem	ber 17, 2024	í			Resp	onded On-Tim	ie					Responded	d Late		

Emergency Service Order On-Time Completion



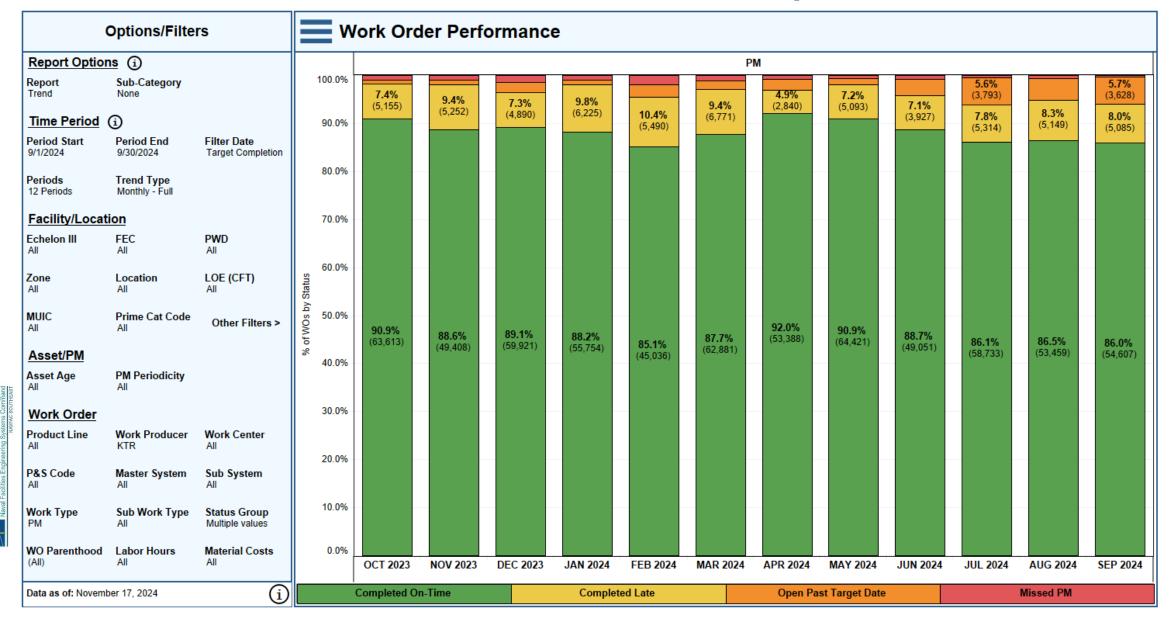
Urgent Service Order On-Time Completion



Routine Service Order On-Time Completion

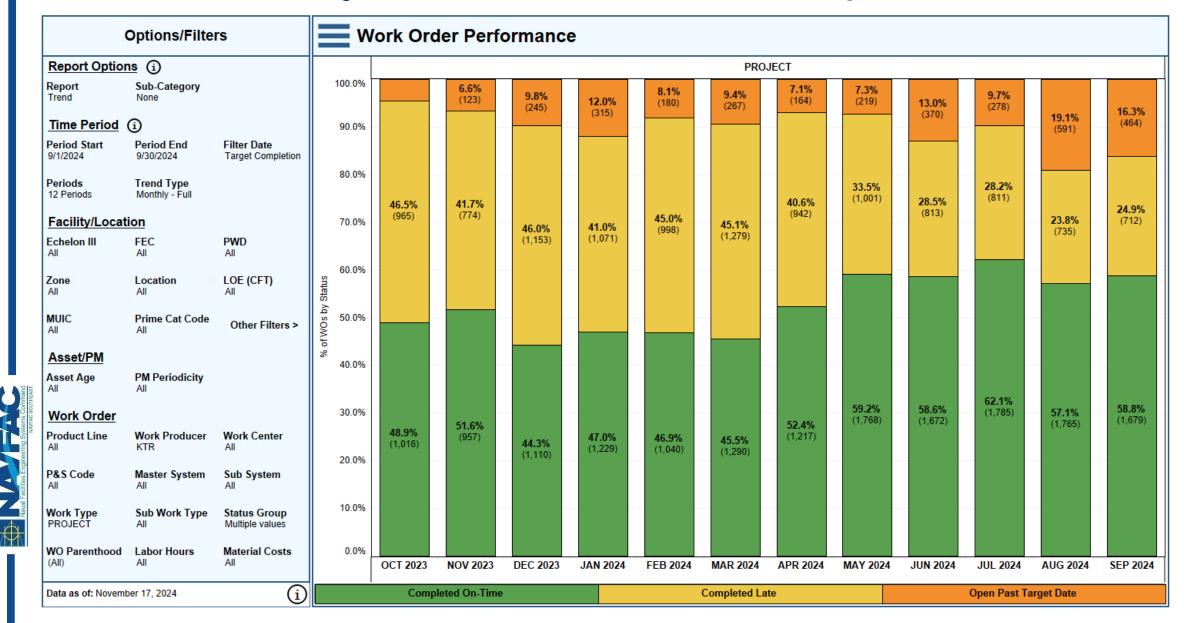
	Options/Filter	rs	w	ork Orc	ler Perfe	ormanc	e								
Report Option	<u>15</u> (i)								ROU	TINE					
Report Trend	Sub-Category None		100.0%				6.1% (594)		5.3% (687)	5.3% (645)	6.2% (793)	6.9% (852)	9.9% (1,208)	12.9% (1,649)	13.0% (1,674)
Time Period Period Start 9/1/2024	Period End 9/30/2024	Filter Date Target Completion	90.0%	15.1% (1,804)	15.6% (1,833)	13.9% (1,519)	16.0% (1,565)	16.1% (1,884)	13.3% (1,714)	14.6% (1,782)	13.3% (1,707)	13.5% (1,661)	12.7%		
Periods 12 Periods	9/30/2024 Trend Type Monthly - Full	Target Completion	80.0%										(1,544)	9.9% (1,275)	10.0% (1,291)
Facility/Locati	ion		70.0%												
Echelon III All	FEC All	PWD All													
Zone All	Location All	LOE (CFT) All	- %0.09 Status												
MUIC All	Prime Cat Code All	Other Filters >	fq s0.0%												
Asset/PM Asset Age All	PM Periodicity		¥0.0%	80.7% (9,658)	79.4% (9,321)	81.3% (8,867)	77.9% (7,602)	79.0% (9,228)	81.4% (10,500)	80.1% (9,804)	80.6% (10,373)	79.6% (9,784)	77.4% (9,429)	77.2% (9,891)	77.0% (9,914)
Work Order			30.0%												
Product Line All	Work Producer KTR	Work Center All	20.0%												
P&S Code All	Master System All	Sub System All	20.070												
Work Type ROUTINE	Sub Work Type All	Status Group Multiple values	10.0%												
WO Parenthood (All)	Labor Hours All	Material Costs All	0.0%	OCT 2023	NOV 2023	DEC 2023	JAN 2024	FEB 2024	MAR 2024	APR 2024	MAY 2024	JUN 2024	JUL 2024	AUG 2024	SEP 2024
Data as of: Novemb	per 17, 2024	í		Completed O	n-Time		Complete	ed Late		Open Pa	ist Target Date			Missed PM	

PM Work Order On-Time Completion



Ø

Project Work Order On-Time Completion



Discussion

- Is status quo acceptable?
- What are the root causes?
- What can we do better for you?



• When is it ok for us to expect more from you?





HVAC Maintenance

NAVFAC SE Industry Day

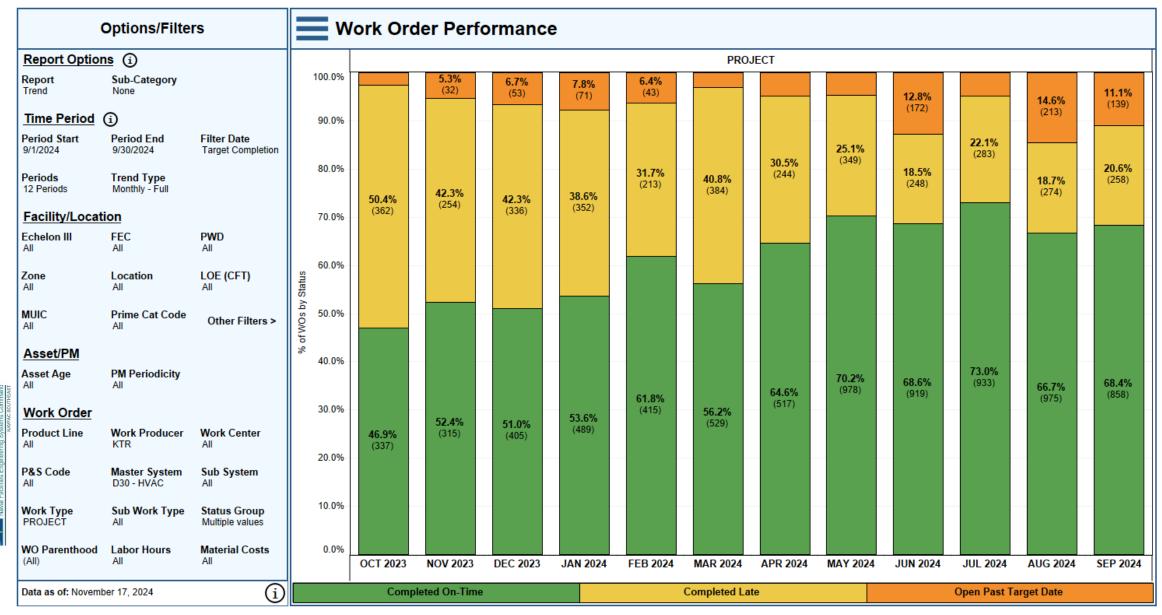
09 DEC 2024



HVAC PM On-Time Completion



HVAC Repair On-Time Completion



 \square

Common problems

- All HVAC systems are not being maintained
- Water treatment in chillers, boilers and cooling towers
- Condensate drains
- Indoor air quality/filter changes
- MX of humidity control systems
- Corrosion
- Inaccurate DCR (Direct Condition Rating/ICAP/UICAP)
- Poor condition rating without any repairs or notification work exceeds contract requirements



Expectations

- Job plans
- PM schedules
- Employee qualification
- Employee supervision
- Quality Management System
- Notification of repair requirements



Discussion

- Is status quo acceptable?
- What are the root causes?
- What can we do better for you?
- When is it ok for us to expect more from you?





Real Property Management and The DD1354 Process

NAVFAC SE Industry Day

09 Dec 2024



DD FORM 1354 Overview

- The DD Form 1354, Transfer and Acceptance of DoD Real Property, is an instrument used by
- Military Services and WHS to accept new construction or capital improvements, to transfer real property assets between Services, or to document inventory adjustment (found on site) assets into the real property inventory.
- The form is part of the lifecycle of real property asset accountability business processes that crosses communities such as planning, programming, construction, contracting and real estate



Acquisitions That Require a DD1354

- Acquisition by construction
- Capital Improvement (change in use or size) to existing facilities
- Transfer of real property between services
- Inventory adjustments (found on site)

Acquisition Type	Draft	Interim	Final
New Construction	×	X	X
Capital Improvement	×	X	X
Transfer Between Services			×
Inventory Adjustment			Х



DD1354 Process UFC 1-300-08

• Draft

The purpose of the draft DD Form 1354 is to capture the information obtained once funding has been authorized and to forecast the changes to the real property inventory. The draft establishes the level of detail and the different components of a project, and shall be provided by the construction agent in accordance with the Services' guidelines

• Interim

The purpose of an interim DD Form 1354 is to allow transfer of accountability from the construction agent to the accountable Service on the placed-in-service date prior to determination of final costs • Final

The purpose of the final DD Form 1354 is to establish in writing the final costs incurred for each facility in a project. All additional expenses incurred following the placed-in-service date or the date the interim DD Form 1354 was signed shall be transferred from the CIP account to the real property asset account in accordance with the final DD Form 1354

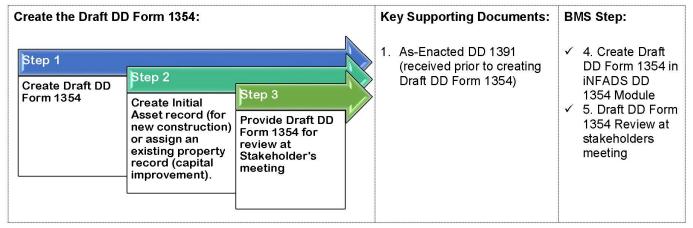


Contractor reviews with Govt and verifies accuracy of Interim



Contractor Receives DD1354 Draft

Create Draft DD1354



Step Notes:

- Contractor will receive the Contractors DD 1354 during the stakeholders meeting
- The DD1354 must include each of the Real Property assets included in the 1391 utilizing the RPCS
- The Contractor must include the Quantity/Size
- The Contractor must include include costs for each asset identified on the DD 1354 totaling the awarded contract cost

Contractor Revises Input to Draft DD1354

Update Draft DD Form 1354 (as required)

Continue to update the facilities in the module throughout the Draft DD Form 1354 phase. When changes are made in the module, print a new Draft DD Form 1354 and provide to the CM/DM/Cost Engineer.

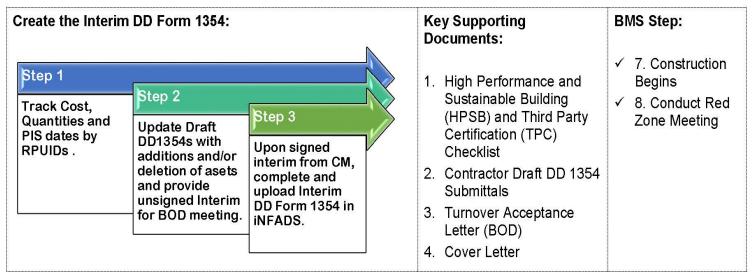
action	Hes	corta	Help Window	N										Ť						
200	20		Report		-									E D						
	1		DD1354 ID					-	Project Descrip	tion										
-	1		287	DRAFT N69232 593		BAMS C	ONSOLIE	DATED	MAINTENANGE HANGAR					2						
3	Gen	eral	Fac	ilities Construction Defi	ciencie	Projec	Remar	ks		~				5						
Inst	Cada		Installation I	Uama			54	e Code	Site Name	2	/			1						
N69				VENTURA CTY PT MUGU CA				9232	NAVBASE VENTUR	A CTY F	TMUG	ADI		_						
Can		Link	antes				-					1		_ \						
	tém		Facility					Sust		und				2						
		Statu		Facility Name	100000	RPUID ct UIC/Numb	Type		Type Code Org C	ode	Con		V.	DeD REAL PROPE	NY N		TP-			MB no. 0704-0188
1		Y	385	BATTERY SHOP POTWATER SA INDUSTRIAL	Proje	ct UIC/Numb	er: wow23	21.043		IRANSP	ERANU	ACCEPTAN	UE OF	DOD REAL PROPE	RIT					3 PAGES
100		T V	and the second se	SSEWER SA MAINBASE FO	The put	uton. Send com	en for this col	income of a	formation is estimated to average 30 minutes tien estimate or any other aspect of this sples	per responsi tion of inform	e, including	the time for reversions to	ter reduc	ructions, searching existing in ing the burden, its the Depar	times sources, gather timent of Defense, B	ing and mansame seculive Services	Orectorate (eded, and 2704-0188	Compet	ng and reviewing the color dents should be paiare th
1		Y	201471	PARKING AREA/BIT	1.FF	tending any other COM (Organic	provision of zation Nar	law, no per	den estimate or any other assect of this sole: non shall be subject to any penalty for failing t	2. DAT	E PREP	ARED	1 00et n	3, PROJECT/JOB	4. SERIAL	NUMBERI 8	TRANS	CTION	DETA	1.5
1		Y	15KUG	15KV UNDERGROUND ELEC		FEAD				-				NUMBER		1	X Aco P	Costal	v þ	6
Ĵ		Y	201450	SIDEWALKS		LAU				6. SITE RPSUID/CODE/NAME 1098 N09232				593	28	17	Transi Service	fer bhw. His	1	Tot. Asset Plac in-Service
I	7	Y	203821	STORM SEWER	5.70	Organizati	on - Instal	lation Cr	de and Name)	NAVE	ASE VEN	TURA CTY P	т	7. CONTRACT	7a. PLACE	D-IN-	A Capita	Imp.		Partial Asset
1		Y	280629	ROADS/BITUMINOUS/MAIN	CON	MANDER, N	AVY INST	ALLATI	ON COMMAND	MUGU		NAME N8923	12	NUMBER(5)	SERVICE		Draft		-	Placed-in-Servi
1		Y	313	COMPOSITE SHOP	311.0	AL BASE VE MAIN ROAD.	SUITE 1	OUNTY		NAVE	ASE VEN	TURA CTY P		N6247309D1657			Interin		- [
		Y	325	SATCOM ANTENNA	POIN	T MUGU, C. 10.a.	A 93042	1 11	12 CATCODE	13.	14 T	ARFA	-	OTHER	TERNATE I	19	-		22	1 21
		Y	203421	DRAINAGE DITCH	ITEM	FAC	RPUID	CAT	DESCRIPTION	TYPE S	UST 15.	16.	17.	OTHER AL	QUANTITY	COST	FUN	21. FUND	INT	ITEM
		Y	204190	FIRE PROTECTION PIPELIN	NO.	NO.	142182	CODE 21145	AVIONICS SHOP (NON-	F	ODEUM	QUANTITY	UM				\$.00	ORG	CODE	REMARKS
		Y	203720	OTHER PAVED AREA	2	PWINDUST		Sec. 1	NAVAIR DEPOT)				F				5.00	1		
		Y	374	SUPPLY WAREHOUSE	1	R			POTABLE									1		
	-	Y	327	TRITON FORWARD OP BAS	3	SSMBASE	1.1.1.1.1.1	1.20	SANITARY SEWER LINE				LF				5.00			
	17		328	HYFORE AIR START SHELT	4	201471			PARKING AREA		SY						5.00			
		1.	1000	-	5	15KUG	1275371	81232	UNDERGROUND ELECTRICAL DISTRIBUTION LINES					LF		1	\$.00	1		
1	-	-	100	and the	6	201450	159257	85220	SIDEWALK		SY					3	5.00	1		
					7	203821	164389	87110	STORM SEWER				LF			1	5.00			
						280829	149501	85110	ROADS		SY		M			1	5.00	1		
					9	313	1289380	21133	NON-METAL COMPONENTS		SF		1				5.00	1		
					10	325	1.1.1.1.1.1	1.00	SHOP (NAVAIR DEPOT) ANTENNA - NAVIGATION		1		EA				5.00	1		
					11	203421	159285		DRAINAGE DITCH				IF				8.00			
					100		100,0012	100200	Provide State (1) State (1)				LE							
					12	204190			FIRE PROTECTION LINES				CF.				5.00	1		
					13	203720		2000	OTHER PAVED AREAS NOT CODED IN THE 100 OR 400 SE		SY						5.00	1		
					54	34	148809		MAINTENANCE HANGAR - OH SPACE (HIGH BAY)		SF					4	\$ 00	1		
					15	374	1275396	44110	DENERAL PURPOSE WAREHOUSE		SF		TC	SH		1	5.00	1		
									19512053052											
					and st	vecifications.	and chang	e orders	. The facilities listed hereon are in approved by the authorized repre	accordan	of the us	laps, drawing ing agency	5. 2	5.a. ACCEPTED BY	(Typed Name a	and Signature	9			b. DATE SIGNED
									te reverse side. le and Signature)		IN DA	TE SIGNED	-	TITLE (DPW/RPAC						26 PROPERTY
					1.1						2.04	IL BISHED	1	the print no						VOUCHER NUMB
					c. TI	TLE (Area Er	gr/Base	Engr /DP	PW / Construction Agent)		1									



Contractor DD1354 Interim Review

Create the Interim DD Form 1354

Thirty to sixty days prior to each PIS date (also known as the BOD), the RPAO will be invited to the "Red Zone Meeting", at which time, the draft DD1354 will be reviewed with the contractor to validate the accuracy of data elements. The importance of the Interim DD Form 1354 is to ensure all of the cost, quantities, and placed in service date(s) are tracked by RPUID and provided on the Contractor's Draft DD1354. The RPAO will use these values to create the Interim DD Form 1354.



Step Notes

- Contractor reviews the accuracy of previous input from the contractor draft 1354
- Verify accuracy of Placed in Service (PIS) date/s for each real property asset RPAO updates now interim DD1354 then contractor then signs upon verifying 100% accuracy (this is our receipt)

Example DD1354

Projec	t UIC/Numbe	a: NU012	004		INAN	JF CR	AND	AGGEN JANG	20	F DoD REAL PR	.072			-			MB no. 0704-0188 2 PAGES
(informa	tion. Send comm	nents recardi	na this bun	comation is estimated to average 30 minutes (on estimate or any other aspect of this collector shall be subject to any penaity for failing to	ction of in	formation	i, inclu	ting suggestions for	e redu	cing the burden, to the	e Depa	riment of Defense, Ex	g and maintaining the eculive Services Direct	data nes	ded, and	completi	ng and reviewing the collect
	OM (Organiz			to shar be bally of to any preasy to strong t		ATE P			. Crorera	3. PROJECT	JOB	4. SERIAL	NUMBER 8. TR	LANSA	CTION	DETA	ILS
FEAD, NAVFAC MIDLAND WD NEW LONDON BOX 36, SUBASE, BUILDING 135						TE RP	20170501 RPSUID/CODE/NAME			NUMBER 664		74		Transf		r. þ.	Tot. Asset Placed
GRO	FON, CT 063	49-5026				153	3 1	00129		1				Servic			in-Service
5. TO	(Organizatio	n - Install	ation Co	de and Name)	NAV	SUBA	SE N	EW LONDON	СТ	7. CONTRAC		7a. PLACE	D-IN-	Capital	Imp. Tv Adi.	i,	X Partial Asset Placed-in-Servic
NAVA BOX	MANDING O L SUBMARI 400, BUILDI	NE BASE NG 135	NEW L	ONDON				EW LONDON		NUMBER(S) N40085-15-0		0 SERVICE 0 20170	F- 🗌	C. Draft Final			
9.	TON, CT 063 10.a.	49-5400 10.b.	11.	12. CATCODE	13.	14.	-	AREA	-	OTHER	A	LTERNATE	19.	20.	21.	22.	23.
NO.	FAC NO.	AC RPUID		DESCRIPTION		SUST		16.	17. UM	18. QUANTITY			COST		FUND		ITEM
1	574	57698	17115	NAVY AND MARINE CORPS RESERVE TRAINING BUILDING	PERM	2	SF				PN		\$88,667.92	1235	07	FEE	INSTALL overhead crane
2	624	1213051	73025	GATE / SENTRY HOUSE	PERM		SF	64.00	8	Î			\$45,947.28		07		NEW Asset @Pier Site
3		1213057		OPERATIONS SUPPORT SHED	PERM		SF	2,400.00	EA	1,00			\$490,448.46		07		NEW Asset - HVU Storage Shed
4	600VUGL	1224858	81232	UNDERGROUND ELECTRICAL DISTRIBUTION LINES	PERM	1					LF	140.00	\$100,477.40	1235	07	FEE	NEW Asset - less than 600 KVA- accondary lines
5	574RG2	1213058	87116	STORMWATER RETENTION POND	PERM	3			-		MG	.02	\$72,232.73	1235	07	FEE	NEW Asset - Stormwater Retent Pond (Rain Garden)/MG=millio of gallons
6	618	1171369	15522	SMALL CRAFT BOAT RAMP FACILITY	PERM	4			EA	1.00	8		\$41,481.61	1235	07	FEE	Increase Size -
7	INTFENC	550831	87215	INTERIOR FENCING (NOT CODED IN 872-10)	PERM	4			LF	170.00			\$38,546.67	1235	07	FEE	ADD fence around Armory
8	SECUTE	1090283	81240	PERIMETER AND SECURITY LIGHTING	PERM	L			LF		EA	4.00	\$58,337.55		07	FEE	Lighting at floating (LF and # of poles)
9	STRMSWR	65965	87110	STORM SEWER	PERM	4			LF				\$36,783.63		07		Storm drain @Bldg 574
11	623	1211887		SMALL CRAFT BERTHING	PERM				FB	160.00	8		\$533,289.50		07	FEE	NEW asset - Floati Pter
	WTRFTSW			OTHER PAVED AREAS NOT CODED IN THE 100 OR 400 SE		1	SY	335.00					\$74,212.60		07	FEE	ADD paved area @ Pier 1
13				PARKING AREA	PERM		SY	2,300.00					\$231,743.35		07		ADD paved area @574
14	5740	1180623	14311	OPERATIONAL VEHICLE GARAGE	TEMP	4	SF						\$162,106.12	1235	07	FEE	Relocate / Modify
nd sp	ecifications a	nd chang	e orders	The facilities listed hereon are in approved by the authorized repre e reverse side.						25.a. ACCEPTE DAVID HEINY	BY	Avped Namela	nd Signature)	0	2		b. DATE SIGNED 20170509
	ANSFERRE		ed Nam	and Signature)	1000	Ł		TE SIGNED	1.11	c. TITLE (DPW/			NZ	2			26. PROPERTY VOUCHER NUMB
			Engr./DP	W / Construction Agent)	2016 1			20170509	1	RPAO, NAVSUE	ASE	NLON, GROTON	, CT 06349-540	0			- Section Howe
SUPV	GENERAL	ENGINEE	R, FEAL	PWD NEW LONDON	-				_								

DD Form 1354

Ø

26

Real Property Categorization System

 Real Property Categorization System (RPCS): The DoD RPCS is a hierarchical scheme of real property types and functions that serves as the framework for identifying, categorizing, and analyzing the department's inventory of land and facilities around the world. This scheme is comprised of a 5-tier structure represented by numerical codes, with 1-digit codes being the most general and 5- or 6-digit codes representing the most specific types of facilities. (Source: Office of the Assistant Secretary of Defense for Energy, Installations, and Environment)



 The current version of the RPCS can be accessed via the Office of the Assistant Secretary of Defense for Energy, Installations, and Environment Real Property Program website <u>Real Property</u>

DD1354 Keys to Success

- Important Contractor Draft information
 - Identify all Real Property Contractor Draft
 - Ensuring the correct Category Codes a assigned to assets
 - Distributing contract award costs over all assets
 - Contractor (PM) not signing and dating Contractor Draft
- Important review of the Interim DD 1354
 - Ensuring the correct placed in service date is entered on the 1354 for each asset per the BOD letter. (This matters for Warranty, depreciation and programed maintenance)
 - Interim reviewed and updated after Red Zone meeting not reviewed and signed by both contractor and Govt PM/CM
 - Ensure quantity and sizes of assets are measured accurately and correct units of measure are utilized on the DD 1354 per the RPCS





