

Date: **August – October, 2005**

System/Subsystem/Equipment: **Plasma Arc Waste Disposal System**

System Classification: **Unclassified**

Analysts: **XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX**

FEA-3 Front End Analysis (Level 1 Data)			
Table 1. Critical Work Function (CWF) Skill Set Data Sheet			
Page ___ of ___			
Section	Data	Tasks and Sub-tasks	Comments
A	Critical Work Function (CWF) Skill Set	Plasma Arc Waste Disposal System Operator / Maintenance Technician	For the CWF skill set, identify whether the skill is a core skill, cross-functional skill or specialty skill. If a cross-functional skill set, identify the other skill sets or tasks the skill is shared with. If a specialty skill, identify the characteristics that make it a specialty skill. <input type="checkbox"/> Core Skill <input type="checkbox"/> Cross-functional Skill <input type="checkbox"/> Specialty Skill
B	Skill Objects (SO) and SO Numbers for CWF Skill Set	<ol style="list-style-type: none"> 1. Operate PAWDS 2. Perform Preventive Maintenance 3. Perform Corrective Maintenance 4. 	
C	Identify resources for this skill set (Instructions, MIL-STDs, specifications, technical manuals, procedures, NSTMs, etc.)	<ol style="list-style-type: none"> 1. OPNAVINST 5100.19C, NAVOSH 2. Preliminary technical manuals and other logistic technical documentation provided by the manufacturer, NGNN, and NAVSEA ISEA. 3. 	

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FEA-4 Task Analysis (Level 2 Data)						
Table 2 – Task Analysis Skill Object Matrix for <u>Plasma Arc Waste Destruction System</u>						Sheet ___ of ___
(CWF Skill Object Nomenclature)						
Critical Work Function (CWF) Skill Objects	Task	Sub Task	Knowledge G=General, S=Specific, U=Unique	Skills	Abilities	Tools
Operate PAWDS	Operate PAWDS	Activate System	Operating Procedures - G, Equipment Theory of Operation - G, Environmental Requirements - S, Safety Precautions – G Core Knowledge – Machinist's Mate (MM)	Monitoring, Information Organization	Reasoning Abilities, Control Precision	
		Monitor System and Make Adjustments As Necessary				
		Secure system				
		Feed Shredder				
Maintain PAWDS	Perform Preventive Maintenance on PAWDS	Clean Conveyor	Preventive Maintenance System Requirements - S, Environmental Regulation - S, Equipment Theory of Operation – G Core Knowledge – Machinist's Mate (MM)	Process Skills, Technical Skills	Reasoning Abilities	
		Inspect Conveyor				
		Clean Airlock				
		Inspect Airlock				
		Clean Mill Inlet				
		Inspect Mill Inlet				
		Clean Mill				
		Inspect Mill				
Clean Injector/Eductor						
Inspect Injector/Eductor						

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FEA-4 TASK ANALYSIS <u>Operate PAWDS</u> (Level II Data)	
A separate task analysis shall be completed for each task and subtask identified in Table 1.	
1. Identify task/subtask:	Activate system
2. Identify the goals for the task/subtask:	Ready system to process waste
3. Is the task/subtask critical or non-critical? If non-critical, explain why the FEA is needed.	Critical
4. What is the frequency of the task/subtask?	Daily
5. What is the degree of complexity for accomplishing this task? Briefly explain.	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
6. What is the degree of difficulty for accomplishing this task? Briefly explain.	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
7. Define the target population characteristics (Rank/rating, physical characteristics and capabilities, cognitive abilities, attitude, etc.) for the individual accomplishing.	TAD Ship's Cook or MM Operator Various ratings: E-1 through E-4
8. Does the task/subtask contain any special performance requirements? If so, what are they?	No
9. Describe any special requirements or restrictions/limitations for the task/subtask.	None
10. Is there a decision cycle for the task/subtask?	Yes. Safety, available TADs, >12nm from shore,
11. Does this task/subtask require information or processes from another (input)?	No
12. Does this task/subtask generate information or processes used by another (output)?	No
13. Complete a Skill Object Matrix Data Sheet (Table 2) for each Skill Object. Identify each Skill Object Work Sheet created.	Completed

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FEA-4 TASK ANALYSIS <u>Operate PAWDS</u> (Level II Data)	
A separate task analysis shall be completed for each task and subtask identified in Table 1.	
1. Identify task/subtask:	Operate system
2. Identify the goals for the task/subtask:	Monitor system for proper operation and make adjustments as necessary to maintain proper operation.
3. Is the task/subtask critical or non-critical? If non-critical, explain why the FEA is needed.	Critical
4. What is the frequency of the task/subtask?	Daily
5. What is the degree of complexity for accomplishing this task? Briefly explain.	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
6. What is the degree of difficulty for accomplishing this task? Briefly explain.	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High
7. Define the target population characteristics (Rank/rating, physical characteristics and capabilities, cognitive abilities, attitude, etc.) for the individual accomplishing.	TAD Ship's Cook or MM Operator Various ratings: E-1 through E-4
8. Does the task/subtask contain any special performance requirements? If so, what are they?	No
9. Describe any special requirements or restrictions/limitations for the task/subtask.	None
10. Is there a decision cycle for the task/subtask?	Yes. Safety, available TADs, >12nm from shore,
11. Does this task/subtask require information or processes from another (input)?	No
12. Does this task/subtask generate information or processes used by another (output)?	No
13. Complete a Skill Object Matrix Data Sheet (Table 2) for each Skill Object. Identify each Skill Object Work Sheet created.	Completed

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FEA-4 TASK ANALYSIS <u>Perform Preventive Maintenance (Level II Data)</u>	
A separate task analysis shall be completed for each task and subtask identified in Table 1.	
1. Identify task/subtask:	Replace mill blades
2. Identify the goals for the task/subtask:	Produce fine product for introduction to next processing step
3. Is the task/subtask critical or non-critical? If non-critical, explain why the FEA is needed.	Yes
4. What is the frequency of the task/subtask?	Quarterly
5. What is the degree of complexity for accomplishing this task? Briefly explain.	<input type="checkbox"/> Low X Medium <input type="checkbox"/> High
6. What is the degree of difficulty for accomplishing this task? Briefly explain.	<input type="checkbox"/> Low X Medium <input type="checkbox"/> High
7. Define the target population characteristics (Rank/rating, physical characteristics and capabilities, cognitive abilities, attitude, etc.) for the individual accomplishing.	Machinist's Mate (E-4, E-5, E-6)
8. Does the task/subtask contain any special performance requirements? If so, what are they?	No
9. Describe any special requirements or restrictions/limitations for the task/subtask.	None
10. Is there a decision cycle for the task/subtask?	Yes. Safety, PMS, troubleshooting
11. Does this task/subtask require information or processes from another (input)?	No
12. Does this task/subtask generate information or processes used by another (output)?	No
13. Complete a Skill Object Matrix Data Sheet (Table 2) for each Skill Object. Identify each Skill Object Work Sheet created.	Completed