WATERJET VISUAL TECHNICAL INSPECTION REPORT

TYPE OF INSPECTION:

PREREPAIR [] POST REPAIR/I	MANUFACTURE [] IN-SERVICE []
IDENTIFIC	CATION DATA
SHIP CLASS	HULL NUMBER
WATERJET IS INSTALLED? YE	S[] NO[] (If NO, skip next line)
PORT[] STBD[]	INBD[] OUTBD[]
WATERJET ASSEMBLY [] IMPEL	LER & SHAFT [] IMPELLER ONLY []
INSF	PECTION
INSPECTING ACTIVITY	LOCATION OF INSPECTION (ACTIVITY)
PT AIDED VISUAL INSPECTION? YES [] NO []	UNDERWATER VISUAL INSPECTION? YES [] NO []
PRINTED NAME AND TITLE OF QUALIFIED INSPECTOR	TELEPHONE NUMBER
SIGNATURE	DATE OF INSPECTION
REVIEWED BY (SEE NOTE 6)	DATE
INSTR	RUCTIONS
 Use this form by placing a check mark in the appropriate co Answer all questions. Use additional comments block if mo If an answer indicates the possibility of an unsatisfactory wa Show the approximate size and location of all defects and co Identify damaged areas as old or new, if possible. Government verification in contractor facility. Independent is distribution copies. 	re space is needed. aterjet, explain in the REMARKS column. lamage on the appropriate sketch. reviewer in government facility. Signature must be on all
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Other:	
NAVSEA 9247/1 (03/09)	PAGE 1 OF

	ITEM	YES	NO	NA	REMARKS
1.0	Impeller Blade Surfaces				
	Are the impeller blade surfaces free of porosity?				
1.1	(Identify location of porosity as being in welded or				
	unwelded areas.)				
1.0	Are the impeller blade surfaces free of damage and				
1.2	deficiencies (e.g., dents, gouges, cable marks, etc.)?				
1.3	Are the impeller blade surfaces free of cavitation				
1.5	erosion?				
1.4	Are the impeller blade surfaces fair (not wavy)?				
	Are the impeller blade surfaces free of cracks? (Identify				
1.5	location of cracks as being in welded or unwelded				
	areas.)				
	Are the impeller blade surfaces free of punch marks and				
1.6	scribe lines, which exceed 0.030 inches in width or				
	depth?				
2.0	Impeller Fillet Areas				
2.1	Are the fillet areas free of porosity? (Identify location of				
2.1	porosity as being in welded or unwelded areas.)				
2.2	Are the fillet areas free of damage and deficiencies				
	(e.g., dents, gouges, ridges, cable marks, etc.)?				
2.3	Are the fillet areas free of cavitation erosion?				
2.4	Are the fillets fair (not wavy)?				
2.5	Are the fillet areas free of cracks? (Identify location of				
	cracks as being in welded or unwelded areas.)				
3.0	Impeller Hub				
3.1	Is the hub free of porosity? (Identify location of porosity				
0.1	as being in welded or unwelded areas.)				
3.2	Is the hub exterior surface free of damage and				
	deficiencies, (e.g., dents, gouges, cable marks, etc.)				
3.3	Is the hub exterior free of cavitation erosion?				
3.4	Is the hub exterior fair (not wavy)?				
3.5	Is the hub exterior free of cracks? (Identify location of				
	cracks as being in welded or unwelded areas.)				
4.0	Impeller and Guide Vane Chamber				
4.1	Is the chamber free of porosity? (Identify location of				
	porosity.)				
4.2	Is the chamber free of cavitation erosion?				
4.3	Is the chamber interior fair (not wavy)?				
4.4	Is the chamber free of cracks? (Identify location of				
	cracks.)				
NAVSE	EA 9247/1 (03/09)			F	PAGE 2 OF

	ITEM	YES	NO	NA	REMARKS
5.0	Stator Blade Surfaces				
	Are the stator blade surfaces free of porosity?				
5.1	(Identify location of porosity as being in welded				
	or unwelded areas.)				
	Are the stator blade surfaces free of damage and				
5.2	deficiencies (e.g., dents, gouges, cable marks,				
	etc.)?				
5.3	Are the stator blade surfaces free of cavitation				
	erosion?				
5.4	Are the stator blade surfaces fair (not wavy)?				
	Are the stator blade surfaces free of cracks?				
5.5	(Identify location of cracks as being in welded or				
	unwelded areas.)				
	Are the stator blade surfaces free of punch marks				
5.6	and scribe lines, which exceed 0.030 inches in				
	width or depth?				
6.0	Stator Fillet Areas		1	1	
	Are the fillet areas free of porosity? (Identify				
6.1	location of porosity as being in welded or				
	unwelded areas.)				
	Are the fillet areas free of damage and				
6.2	deficiencies (e.g., dents, gouges, ridges, cable				
<u> </u>	marks, etc.)?				
6.3	Are the fillet areas free of cavitation erosion?				
6.4	Are the fillets fair (not wavy)?				
6.5	Are the fillet areas free of cracks? (Identify				
0.0	location of cracks as being in welded or				
7.0	unwelded areas.) Stator Hub				
7.0	Is the hub internal wall free of porosity? (Identify		1		
7.1	location of porosity as being in welded or				
1.1	unwelded areas.)				
	Is the hub exterior surface free of damage and				
7.2	deficiencies, (e.g., dents, gouges, cable marks,				
1.2	etc.)				
7.3	Is the hub exterior free of cavitation erosion?				
7.4	Is the hub internal wall free of cavitation erosion?				
7.5	Is the hub exterior fair (not wavy)?				
7.6	Is the hub free of cracks? (Identify location of				
	cracks as being in welded or unwelded areas.)				
	EA 9247/1 (03/09)				PAGE 3 OF
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	ITEM	YES	NO	NA	REMARKS
8.0	Waterjet Impeller Shaft				
	Is the impeller shaft surface free of porosity?				
8.1	(Identify location of porosity as being in welded				
	or unwelded areas.)				
0.0	Is the impeller shaft free of damage and				
8.2	deficiencies (e.g., dents, gouges, cable marks, etc.)?				
	Is the impeller shaft surface free of cavitation				
8.3	erosion?				
9.0	Waterjet Inlet Duct				
	Is the duct surface free of damage and				
9.1	deficiencies, (e.g., dents, gouges, cable marks,				
	etc.)				
9.2	Is the duct free of cavitation erosion?	 			
	Is the duct free of cracks? (Identify location of				
9.3	cracks as being in welded or unwelded areas.)				
10.0	Steering Hardware & Hoses		1		
10.1	Are the steering cylinders free of marine growth?				
10.2	Are the hoses or hose connections leaking fluid?				
11.0	Is the impeller free of marine growth?				
12.0	Surface Finish		I	1	
12.1	Is the hub O.D. surface a maximum of 125 Ra?				
12.2	Are the blade surfaces a maximum of 63 Ra?				
	(for Class I & II propellers) Are the blade surfaces a maximum of 125 Ra?				
12.3	(for Class III & IV propellers)				
40.4	Are all O-ring sealing surfaces a maximum of 32				
12.4	Ra?				
	Are the approximate size and location of all				
13.0	defects and damage shown on the attached				
	sketches?				
	For new manufacture or new weld repair				
14.0	areas, does the propeller meet MIL-STD-2035				
	acceptance criteria?				
15.0	Does the condition of this propeller indicate				
	that it will provide satisfactory service?				
NAVSEA 9247/1 (03/09) PAGE 4 OF					PAGE 4 OF
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	ITEM	
	Provide a brief description of the repairs considered necess	ary to restore this
	propeller to a serviceable condition.	
17.0	Hub/Palm Stamped Data (Exactly as stamped.)	
18.0	Additional Comments. (Use additional sheets, if necessary)	
	ER SERIAL NO.:	
NAVSE	A 9247/1 (03/09)	PAGE 5 OF







