Vendor:	·	Auditor:	Date:	
1.	Routine Scheduled Audit			
	a. Annua			
	b. Semi-a	nnual		
	c. Other			
2.	Product driven Audit			
	a. Produc	t received by the Prime Vendor th	hat does not meet specification	on requirements.
		t that was installed or was being i	1	· —
	c. Produc	t has failed in service and investig	gations show it did not meet	specification requirements.
What s <sub>1</sub>	pecification is the Audit be	ing performed to?		
3.	• •	Mark the appropriate specification	on	
	a. MIL-S			
		EA 250-1500-01 (Welds)		
		TD-271 (F)		
		-AS-GIB-010/271 ACN1		
		-AS-GIB-010/271 Revision 1		
	f. Other_			
4.	Program Type: Mark the	appropriate program type		
	a. Level I	/ SubSafe		
	b. Nuclea	r Plant Material		
		Wire Ships Control System		
	-	Propulsion Program		
		Nuclear Propulsion Program		
		Submergence Systems / Scope of	Certification Program	
	Ũ	t Launch and Recovery		
	h. Other			
5.	Does the vendor have an	NDT Examiner?		
	a. In hous	se		
	b. Contra			
		ed in the method		
		ble for the Audit		
	e. No Exa	aminer		
6.	Is the NDT inspection pr	ogram administration code or spe	cification complaint?	
		II Approved written practice		
		ved procedures	_	
		Level III		
	ii.	Prime contractor		
	iii.			
	iv.			
	V.	Qualified to find known defects	s L	

	C	Approved technique sheet	
		i. Level III	
		—	
		iii. Clearly specifies inspection requirements	
		iv. Clearly specifies acceptance criteria	
	d.	11	
		i. Level III	
		ii. Prime contractor	
		iii. Clearly specifies inspection requirements	
		iv. Clearly specifies acceptance criteria	
	e.		
		i. Is there a current eye examination	
		ii. Certifications are current	
		iii. Previous certifications included	
	r.		
	f.	Workmanship standards	
		i. Available	
		ii. Controlled	
<u> </u>			
7.	Are material cor	_	
	a.		
	b.	Controlled	
	с.	Traceable	
	d.	Procedure for disposition	
8.	Are records main	intained to confirm that all required inspection processes were performed?	
	a.	Description and unique identification of item being inspected	
	b.	Approved procedure identification	
	с.	Acceptance standard used	
	d.	Date of inspection	
	e.	Signatures of inspectors	
	f.	Disposition (accept / reject) of the item inspected	
	g.	Retention (Where and how long)	
	8		
9.	1. Technie	ical Concerns: List the technical concerns associated with the method.	
	a.	Pre-Weld Fit-up and Dimensional: Pre-weld dimensions and fit-up attributes should be verified when	
		applicable.	
		**	
	b.	Weld Contour (as welded or ground): An improper weld contour can have a detrimental effect on the	
		integrity of the weld joint and higher level NDT methods such as MT, PT, UT and RT.	
	с.	Weld size (minimum and maximum): Specified weld sizes are based upon engineering, design and serve	vice
		requirements. Weld size verification is an important attribute to ensure the engineered strength weld an	
		component can meet its intended purpose.	
		1 · · · · · · · · · · · · · · · · · · ·	
	d.	Acceptance Criteria: Acceptance criteria can vary depending on joint design, weld classification and	
	u.	higher level NDT requirements (PT, MT, UT, RT). Inspection procedure and Acceptance criteria shoul	d be
		available to inspector at workstation	
		a variable to inspector at workstation	
		Inadaguata Process Controls: Thorough and tachnically comprehensive VT procedures groups the	
	e.	Inadequate Process Controls: Thorough and technically comprehensive VT procedures ensure the	
		inspector has adequate and detailed direction to evaluate any weld or applicable surface.	

		f.	<u>Inadequate Technique</u> : Inspector technique and methodology when per especially measuring and dimensional verification of weld size and dis- use of lighting is an important and helpful component of the inspection discontinuities. Shadow formation caused by ridges and crevices are m with proper flashlight angulation.	continuity size, are critical. Proper to enhance identification of surface
10.	Known	Process 1	Problems: List the known process problems	
		a.	Required inspection tools available	
		b.	Inspection tools calibrated (when required)	
		c.	Is the lighting adequate (is there a procedure requirement?)	
Checkli	ist Instruc a.	Any cor i. ii. iii.	e specific and ask follow-up questions as appropriate. Indition that is considered to be non-compliant must be specifically docur Specification Page Paragraph Detailed description of what was observed	nented as to what the deficiency is.
	b. Document comments or observations on the checklist at each checkpoint or the comment section, as needed, no matter if the checkpoint is satisfactory or unsatisfactory.			comment section, as needed, no
	c.	Comme	nts on any checkpoint may be positive, as well as negative.	
	d. If it is observed that an attribute requires additional attention but does not invalidate the inspection, mark the Needs Improvement (NI) column and provide a recommendation in the comments area.			-
<u>Review</u> <u>site.</u>			the vendor to be sure there is no confusion as to what the findings a	re before you leave the vendor
	Procedu		VP	AR Approval:
	Part exa	mined:		
1.	Did the examin		r have the procedure at the examination site and refer to it during the	Sat Unsat NI N/A
2.	Did the or HSL	e part to b A materia	e inspected require a waiting period after welding prior to testing? (HY als) (1688 5.6.f and Table 6.1)	Sat Unsat NI N/A

3.	Was the area to be inspected properly cleaned and prepared? (TP-271 4.3.1.4.1, 250-1500-1 12.4.1.4)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
4.	Were there any silicates left after cleaning?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
5.	Was the temperature of the part correct for the type of materials to be used per the procedure? (wet not over 120°, dry per manufacturer) (TP-271 5.6.3)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
6.	Was the part checked for objectionable remnant field prior to testing, if required? (TP-271 4.3.1.6.1(a), 250-1500-1 12.4.1.11)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
7.	Was the yoke calibration checked by a lift test on a periodic basis (daily, monthly, annually)? (TP-271 4.3.1.7.2,) (Mil-I-45208 3.3, ISO 9001 7.1.5)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
8.	Was the part visually inspected prior to performing the magnetic particle exam? (Mil-Std-2035 4.1)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
9.	For wet particles, was the particle concentration checked? Not required with spray cans (TP-271 4.3.2.6.1, 250-1500-1 12.4.2.3.2)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
10.	Does the technician understand or demonstrate the field indicator (Pie gage) requirements and usage? (TP-271 4.3.1.8, 250-1500-1 12.4.3.2)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
11.	Did the technician get the maximum foot contact possible for the part?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
12.	Did the technician direct the field in two opposing directions at each location? (TP-271 4.3.1.5, 250-1500-1 12.4.1.7)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
13.	Was the limit of the field kept within the requirements of the procedure? (e.g. maximum extension of the field sideways from a line drawn from the ¢ of one pole to the other. This is usually about <sup>1</sup> / <sub>4</sub> the pole extension.) (TP-271 4.3.3.4.1, 250-1500-1 12.4.3.4)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
14.	Did the technician maintain a 1" overlap from one test position to the next? (TP-271 4.3.3.4.1, 250-1500-1 12.4.3.4)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
15.	Were the yoke legs held at the proper angle to the $\pounds$ of the weld? (0° or 30 to 45° to $\pounds$ ) (TP-271-4.3.3.4.1, 250-1500-1 12.4.3.4.2)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
16.	Were the particles applied properly? (watch for indications to form, float particles on, light application, agitate spray cans, etc.) (TP-271 4.3.3.2, 250-1500-1 12.4.3.2)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌

17.	Were the excess particles removed properly? (TP-271 4.3.3.2.1, 250-1500-1 12.4.3.3)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
18.	Was the field maintained throughout the application and removal of the particles? (TP-271 4.3.3.4.3, 250-1500-1 12.4.3.1)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
19.	Where relevant indications evaluated at the optimum magnetization position? (TP-271 4.4, 250-1500-1)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
20.	For visible particles, was the proper lighting used for the evaluation? (TP-271 4.3.1.1.1, 250-1500-1 100 ft/cdl 12.4.1.9)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
21.	For fluorescent particles, was the proper lighting used for the evaluation? (e.g. darkened area, 800 mW/cm <sup>2</sup> ultraviolet light) (TP-271 4.3.1.1.1, 250-1500-1 12.4.1.9)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
22.	Was the light intensity verified prior to evaluation? (TP-271 5.6.8)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
23.	Was the part checked for a residual magnetic field after the test? (TP-271 4.3.1.6.1(a), 250-1500-1 12.4.1.11)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
24.	Was the part properly post cleaned? (TP-271 4.6, 250-1500-1 12.4.1.12)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
25.	Did the candidate demonstrate knowledge of the correct acceptance criteria and how the acceptance criterion is determined?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
26.	Was a report filled out correctly and with all the information required by the procedure and the proper disposition of the discontinuities? (TP-271 3.4.15, 250-1500-1 8.2)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
27.	Were the correct particles used per the procedure and the type of test (wet or dry) being conducted?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
28.	Is vision correction required? (Verify) Was vision correction worn during inspection? (TP-271 1.6.6.2, 250-1500-1 6.7.5)	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
29.	Did the inspector demonstrate confidence while performing the testing?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌
30.	Did the examiner that was watching the TPE provide feedback (either positive or negative) to the inspector after the examination was completed?	Sat 🗌	Unsat 🗌 NI 🗌 N/A 🗌

### Concerns/Comments