

NAV03 RT - NONDESTRUCTIVE TESTING (ISO 4.9)

Vendor: _____ **Auditor:** _____ **Date:** _____

1.	Routine Scheduled Audit a. Annual <input type="checkbox"/> b. Semi-annual <input type="checkbox"/> c. Other <input type="checkbox"/>
2.	Product driven Audit a. Product received by the Prime Vendor that does not meet specification requirements. <input type="checkbox"/> b. Product that was installed or was being installed the does not meet specification requirements. <input type="checkbox"/> c. Product has failed in service and investigations show it did not meet specification requirements. <input type="checkbox"/>
What specification is the Audit being performed to?	
3.	Governing Specification: Mark the appropriate specification a. MIL-STD-2132 <input type="checkbox"/> b. NAVSEA 250-1500-01 (Welds) <input type="checkbox"/> c. MIL-STD-271 (F) <input type="checkbox"/> d. T9074-AS-GIB-010/271 ACN1 <input type="checkbox"/> e. T9074-AS-GIB-010/271 Revision 1 <input type="checkbox"/> f. Other _____ <input type="checkbox"/>
4.	Program Type: Mark the appropriate program type a. Level I / SubSafe <input type="checkbox"/> b. Nuclear Plant Material <input type="checkbox"/> c. Fly by Wire Ships Control System <input type="checkbox"/> d. Navy Propulsion Program <input type="checkbox"/> e. Naval Nuclear Propulsion Program <input type="checkbox"/> f. Deep Submergence Systems / Scope of Certification Program <input type="checkbox"/> g. Aircraft Launch and Recovery <input type="checkbox"/> h. Other _____ <input type="checkbox"/>
5.	Does the vendor have an NDT Examiner? a. In house <input type="checkbox"/> b. Contracted <input type="checkbox"/> c. Certified in the method <input type="checkbox"/> d. Available for the Audit <input type="checkbox"/> e. No Examiner <input type="checkbox"/>
6.	Is the NDT inspection program administration code or specification complaint? a. Level III Approved written practice <input type="checkbox"/> b. Approved procedures i. Level III <input type="checkbox"/> ii. Prime contractor <input type="checkbox"/> iii. Clearly specifies inspection requirements <input type="checkbox"/> iv. Clearly specifies acceptance criteria <input type="checkbox"/> v. Qualified to find known defects <input type="checkbox"/>

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	<ul style="list-style-type: none"> c. Approved technique sheet <ul style="list-style-type: none"> i. Level III <input type="checkbox"/> ii. Prime contractor <input type="checkbox"/> iii. Clearly specifies inspection requirements <input type="checkbox"/> iv. Clearly specifies acceptance criteria <input type="checkbox"/> d. Approved technical work documents <ul style="list-style-type: none"> i. Level III <input type="checkbox"/> ii. Prime contractor <input type="checkbox"/> iii. Clearly specifies inspection requirements <input type="checkbox"/> iv. Clearly specifies acceptance criteria <input type="checkbox"/> e. Inspector records <ul style="list-style-type: none"> i. Is there a current eye examination <input type="checkbox"/> ii. Certifications are current <input type="checkbox"/> iii. Previous certifications included <input type="checkbox"/> iv. Educational history <input type="checkbox"/> f. Workmanship standards <ul style="list-style-type: none"> i. Available <input type="checkbox"/> ii. Controlled <input type="checkbox"/>
7.	<p>Are material controls in place?</p> <ul style="list-style-type: none"> a. Segregated (Level I, Subsafe, etc.) <input type="checkbox"/> b. Controlled <input type="checkbox"/> c. Traceable <input type="checkbox"/> d. Procedure for disposition <input type="checkbox"/>
8.	<p>Are records maintained to confirm that all required inspection processes were performed?</p> <ul style="list-style-type: none"> a. Description and unique identification of item being inspected <input type="checkbox"/> b. Approved procedure identification <input type="checkbox"/> c. Acceptance standard used <input type="checkbox"/> d. Date of inspection <input type="checkbox"/> e. Signatures of inspectors <input type="checkbox"/> f. Disposition (accept / reject) of the item inspected <input type="checkbox"/> g. Retention (Where and how long) <input type="checkbox"/>
9.	<p>1. Technical Concerns: List the technical concerns associated with the method.</p> <ul style="list-style-type: none"> a. <u>Pre-Weld Fit-up and Dimensional</u>: Pre-weld dimensions and fit-up attributes should be verified when applicable. b. <u>Weld Contour (as welded or ground)</u>: 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. c. <u>Weld size (minimum and maximum)</u>: Specified weld sizes are based upon engineering, design and service requirements. Weld size verification is an important attribute to ensure the engineered strength weld and component can meet its intended purpose. d. <u>Acceptance Criteria</u>: Acceptance criteria can vary depending on joint design, weld classification and higher level NDT requirements (PT, MT, UT, RT). Inspection procedure and Acceptance criteria should be available to inspector at workstation e. <u>Inadequate Process Controls</u>: Thorough and technically comprehensive VT procedures ensure the inspector has adequate and detailed direction to evaluate any weld or applicable surface.

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	<p>f. Inadequate Technique: Inspector technique and methodology when performing visual weld inspection, especially measuring and dimensional verification of weld size and discontinuity size, are critical. Proper use of lighting is an important and helpful component of the inspection to enhance identification of surface discontinuities. Shadow formation caused by ridges and crevices are more readily visible and identifiable with proper flashlight angulation.</p>	
10.	<p>Known Process Problems: List the known process problems</p> <ul style="list-style-type: none"> a. Required inspection tools available b. Inspection tools calibrated (when required) c. Is the lighting adequate (is there a procedure requirement?) 	
<p>Checklist Instructions: Be specific and ask follow-up questions as appropriate.</p> <ul style="list-style-type: none"> a. Any condition that is considered to be non-compliant must be specifically documented as to what the deficiency is. <ul style="list-style-type: none"> i. Specification ii. Page iii. Paragraph iv. Detailed description of what was observed 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. c. Comments 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. 		
<p><u>Review all findings with the vendor to be sure there is no confusion as to what the findings are before you leave the vendor site.</u></p>		
<p>Inspector Name: _____</p> <p>Procedure: _____ VPAR Approval: _____</p> <p>Part examined: _____</p>		
<p>Administrative Attributes</p>		
1.	<p>Is the inspector certified in the technique in which they are being audited? 3 year cert, plus 9 months (271 ACN1) or 1 year (271R1) currency.</p>	<p>Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/></p>
1a.	<p>For 271R1, in addition to annual currency, has at least 1 TPE been performed within 2 years of the certification/re-certification date?</p>	<p>Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/></p>

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2.	Does the Level III regularly perform surveillances and technical performance evaluations for all inspection personnel?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
2a.	Is surveillance/TPE sufficient to assure satisfactory performance of the inspectors being observed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
3.	Has the inspector received a J1 eye exam and is it current?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
3a.	If vision correction is required, were corrective lenses worn during inspection?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
4.	Is the Level III certified and is certification current? Is the Level III subcontracted or in-house?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
4a.	Is the Level III available for the audit?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
5.	Did the inspector have the most current procedure/technique at the examination site and refer to it during the examination?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
6.	Is the NDT procedure qualified, and approved/signed by the Examiner?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
6a.	Is the procedure certified to comply with TP 271 (if applicable)?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
6b.	Does the procedure qualification prove that discontinuities of a size near the threshold of acceptance/rejection can be reliably detected and evaluated?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
6c.	For new procedures qualified to TP 271 R1, are the discontinuities of a size near the threshold of acceptance/rejection criteria?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
7.	Is the procedure/technique in accordance with the specifications called out for in the contract and meet all applicable inspection requirements?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
8.	For castings (if applicable), is an approved Radiographic Shooting Sketch (RSS) being utilized?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
9.	For castings (if applicable), does the RSS contain all required information as required by the applicable specification?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
10.	Does the contract/work order clearly define the inspection requirements, required quality level, etc?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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10a.	Is the extent of coverage clearly defined; e.g. 60/360 degrees, 100%, etc.?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
11.	If applicable, does the Level III Examiner perform regular overviews of the inspector by performing reinspections of previously accepted hardware? (NSTR-99 only)	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
12.	Are there any corrective actions previously issued for the method/technique being observed, that will impact this inspection and, if applicable, have the changes in the response been implemented?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
13.	Are the product and materials used to perform the tests controlled and traceable throughout the process?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
Pre-Exposure Attributes		
14.	Were all good safety practices (including radiological) being followed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
15.	Have the film cassettes been inspected for damage/light leaks?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
16.	Have the intensifying screens been inspected for cleanliness/damage?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
16a.	Have the correct intensifying screens been selected for the job?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
17.	Has the film been properly handled during loading?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
18.	Has the proper type film and size been selected for the part?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
19.	Was the film being used within the expiration date or if it is out of date, has it been tested to extend the expiration date?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
20.	Are the safe lights being properly utilized during film loading?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
21.	Was the unexposed (green) film properly stored in a cool, dry environment away from radiation?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
22.	Has the weld joint/part been properly identified?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
23.	Has the surface of the weld/part been properly prepared for inspection?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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24.	Is the inspection performed in the final surface and heat treat condition unless otherwise allowed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
24a.	If inspection is performed prior to final machining, does the inspection account for the finish machined condition per specification requirements?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
25.	Has the correct technique been selected for radiography of the part; i.e. single-wall exposure/single-wall view, double-wall exposure/single-wall view, double-wall exposure/double-wall view.	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
26.	Have the location markers been properly arranged that it is evident the required inspection coverage has been obtained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
27.	Are the location markers being maintained on the part to permit coordination with their images on the film?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
28.	Does the part layout include a positive reference system (e.g. flow arrows, component reference marking, etc.) so that the layout can be duplicated after removing the location markers?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
29.	Has the correct penetrameter size been selected?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
29a.	Is the penetrameter properly identified with lead numbers or engraved strips?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
29b.	For NSTP 271 applications and for casting and forgings thickness that exceeds the nominal thickness of the finished piece, is the penetrameter size based on a thickness which is not greater than 20 percent more than the nominal thickness of the finished piece, or 1/4", whichever is greater?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
30.	Is the penetrameter being used checked for dimensional accuracy and is there a record of this verification; e.g. certification certificate, etc?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
31.	Is the penetrameter of the correct material type/group (or lower) number?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
32.	Has the correct number of penetrameters per the inspection specification been utilized?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
33.	Is the penetrameter properly placed and oriented on the part?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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34.	Has the proper shim material/thickness been selected and is the material type marked on the shim?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
35.	Does the shim exceed the penetrometer on all sides (or at least one side as applicable to the specification)?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
36.	If utilized, did the radiographer demonstrate satisfactory placement of any slotted shims or root contour comparator shims utilized in the radiographic technique?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
37.	If utilized, is the separate block material correct and has it been properly placed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
38.	Has the lead letter "B" been properly placed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
39.	Has the film cassette been properly placed as close as possible to the part being radiographed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
40.	Has the back filter been properly placed?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
41.	Is the film identification correct?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
42.	Are the energies being utilized within the allowed kV range for the thickness of the part (per NSTP 271, these are recommended voltages)? (i.e. X-Ray voltages, Gamma radioisotope selection)	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
43.	Is the minimum calculated source-to-film-distance (SFD) being maintained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
44.	If a film gap exists, has the SFD been properly increased to account for that film gap?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
45.	If applicable, has the SFD been properly increased to account for radioisotope sizes greater than 1/8"?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
46.	Was the direction of the radiation beam central to the area being examined?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
Post-Exposure Darkroom/Film Viewing Facility Attributes		
47.	Is the automatic film processor being regularly maintained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
48.	Is the film being properly handled during film development?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
49.	Are the safe lights being properly utilized during film development?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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50.	Were the film viewing facilities and dark room clean and constructed to exclude objectionable lighting?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
51.	Was the film viewer in good working order with variable intensity controls?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
52.	Did the film viewer have adequate cooling fans to prevent warping of the film after one minute of continuous contact at the viewing port?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
53.	Per the requirements of ASTM E1079, are the densitometers in good working condition and calibrated within 90 days, and is there a record of this calibration?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
54.	Was the aperture of the densitometer being used not greater than 2mm in diameter?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
55.	Was there a density strip being used to verify accuracy of the densitometer within ± 0.05 density units of the density strip readings?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
55a.	Is the densitometer verification conducted prior to each shift and is there a record of this verification check?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
56.	Is the calibrated density strip still current and within 4 years of its package being opened, and is it properly documented?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
57.	Did the inspector demonstrate proper use of the densitometer?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
58.	If applicable, are any reference radiographs and/or workmanship samples being properly maintained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
59.	Were the rules, overlays, etc. used for taking measurements on the film properly calibrated?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
Post-Exposure Radiographic Technique Verification Attributes		
60.	Did the inspector verify the correct radiographic technique was utilized?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
61.	Is the film free from blemishes, processing marks, and other artifacts that may interfere with interpretation?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
62.	Are all acceptable film blemishes, processing marks, and artifacts identified and dispositioned on the radiographic report?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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63.	Was it evident on the film that backscatter controls used during radiography were effective (e.g. lead letter 'B' images)? For darker images of the lead letter 'B' on a lighter background, does it interfere with the film evaluation?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
64.	Was the part properly identified on the film?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
65.	Was it evident on the film through the proper use of location marker placement that complete inspection coverage was obtained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
66.	Was it evident location markers were properly positioned in relation to the edge of the weld? (not applicable for castings)	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
67.	Did the inspector verify the correct penetrometer size and material group was utilized for all film?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
68.	Was the required radiographic quality level obtained?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
69.	Was the overall film density in the area of interest within requirements?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
70.	Regarding penetrometer/shim densities, was the density over the required penetrometer T-hole not greater than 15% more than the lightest density in the area of interest? For castings and forgings per NSTP 271, does the density over the required T-hole vary more than plus 30% to minus 15% more than the lightest density in the area of interest?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
71.	Did the inspector verify the shim exceeds the penetrometer on all sides (or at least one side as applicable to the specification)?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
72.	Was the penetrometer/shim location verified to be properly located in relation to the edge of the weld? (not applicable for castings)	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
Post-Exposure Film Interpretation Attributes		
74.	For welds, did the inspector demonstrate satisfactory knowledge and application of the acceptance criteria?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
75.	For castings, did the inspector demonstrate satisfactory knowledge and application of the applicable reference radiographs?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
76.	If applicable, did the inspector demonstrate satisfactory application of any workmanship samples being used?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

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77.	If applicable, did inspector demonstrate satisfactory knowledge in the application of any slotted shims or root contour comparator shims utilized in the radiographic technique?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
78.	Did the inspector evaluate the entire inspection area imaged on the film?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
79.	Did the inspector properly address and adjudicate any inadvertent radiography imaged on the film (e.g. adjacent weld joints, base material indications, etc)?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
80.	If applicable, did the inspector verify any surface conditions noted by checking the surface of the part?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
81.	Are all welding and/or casting discontinuities imaged on the film recorded on the radiographic report?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
82.	Did the inspector satisfactorily disposition all welding and/or casting discontinuities imaged on the film?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
83.	Did the inspector demonstrate adequate use of measuring instruments in sizing discontinuities?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
Radiographic Inspection Report Attributes		
84.	Did radiographic inspection personnel correctly complete the radiographic inspection record as required by the procedure?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
85.	Does the inspection record contain all the required information applicable to the specification as called out in the contract? (i.e. MIL-STD 2132, NSTP 271, NS 250-1500-1)	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
86.	Does the inspection report include a sketch, drawing, or reference to a technique or equivalent record to show the radiographic set-up utilized to produce each radiograph?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>
87.	Was a report filled out correctly and with all the information and signatures required by the procedure, applicable specification and with proper disposition/recording of the discontinuities?	Sat <input type="checkbox"/> Unsat <input type="checkbox"/> NI <input type="checkbox"/> N/A <input type="checkbox"/>

Concerns/Comments
