



Accredited Test Facility (ATF) Magnetic Particle and Penetrant Testing

FOR AWS USE ONLY

Audit ID:	Organization:	Auditor(s):	Audit Date:
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AUDIT CHECKLIST

Instructions: Please answer all questions below in the Quality Manual Index column, indicating the corresponding page or section number of your Quality Manual.

QUALITY MANUAL REQUIREMENTS	Facility Review	Auditor Review		Auditor Confirmation of Implementation	
Reference Topic	Quality Manual Index	S	U	S	U
Facility Staff					
1. Does the test administrator hold current ASNT NDT Level III in MT and PT					
2. Are there copies of current ASNT NDT Level III in MT and PT Certificates					
2. Test administrator has familiarity with AWS MT and PT Endorsement Test					
3. Qualified Support Staff are delegated by the test administrator					
3.1 General duties of Qualified Support Staff					
3.2 Proctor duties Qualified Support Staff					
3.3 Qualifications of Support Staff					
Auditor Comments:					



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QUALITY MANUAL REQUIREMENTS	Facility Review	Auditor Review		Auditor Confirmation of Implementation	
Reference Topic	Quality Manual Index	S	U	S	U
Practical Test Pieces					
1. Test pieces are kept in good condition					
2. NDT maps are kept for each test piece					
3. Test pieces correlate to specified requirements (see appendix A)					
4. Flaws in test pieces and maps were confirmed by ASNT NDT Level III					
Auditor Comments:					
Practical Test Equipment – Magnetic Particle Testing					
1. Supply of test materials (see appendix B)					
2. MT equipment and materials in good condition					
3. Demagnetization of equipment and procedure					
Auditor Comments:					



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Reference Topic	Quality Manual Index	S	U	S	U
Practical Test Equipment – Penetrant Testing					
1. Supply of test materials (see appendix C)					
2. PT materials are in good conditions					
3. Appropriate cleaning device (i.e., an ultrasonic dip tank) and procedure					
Auditor Comments:					
Practical Test Monitoring and Reviewing					
1. Practical Tests were monitored by test supervisor					
2. Test candidates were given sufficient instruction for how to answer					
3. Test candidates were provided with proper tools and necessary data to answer the questions					
4. Practical tests were finished within time limits					
5. Practical tests were evaluated and scored by the test supervisor according practical test evaluation procedure					
Auditor Comments:					



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Written Test Area (If applicable)					
1. The room must have sufficient illumination.					
2. The room shall be free of noise or distractions from internal or external sources.					
3. The room shall have adequate ventilation and temperature control.					
4. The room shall have adequate ventilation and temperature control.					
5. The candidate tables must have a firm, smooth writing surface.					
6. There must be 3 to 4 feet of space between each candidate.					
Auditor Comments:					



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Appendix A

- Fillet Weld T-Joint sample -- 8" long by 3" high, 5/16" single pass fillet weld
- Single V-Groove Butt Joint -- 6" long by 6' wide, 1/4" to 3/8"
- Contains more than one linear discontinuities that will clearly and repeatedly produce multiple transverse and/or longitudinal crack
- Made out of ferromagnetic steel with high permeability and low retentivity such as ASTM A-36 steel.
- Dimensioned flaw map drawing or high quality dimensioned photograph of each specimen

Appendix B

- Pie Gauge
- Powder remover blower
- 10lb weight with calibration markings
- 1 rag per person
- 1 or two bottles of acetone
- 1 pair of latex gloves per person
- 1 light meter
- 1 flashlight per person 100 candles/ft – 100 lumen
- 1 Yoke per person
- 1 powder applicator
- Powder grey (preferable)
- Field indicator

Appendix C

- Liquid penetrant materials – Type 2 method C visible (red) dye penetrant liquid
- Solvent Dye Remover (Cleaner)
- Non- Aqueous wet Developer
- Lint-free clean towels or rags (white in color)
- Calibrated white light meter
- Accurate temperature indication device,
- 100 ft./cdl white light source (either flashlight or bright inspection light source able to produce 100 ft/cdl at the surface of the parts being inspected)