

NH 9/21/15

**WRPS QUALITY ASSURANCE REQUIREMENTS**

Requisition No. <b>282565 282565</b>		Date	Design Authority/Engineer*:	Date
Quality Assurance Engineer*: Jack Burgess <i>J.A. Burgess</i>		9/17/15	Jason Engeman <i>Jason Engeman</i>	9/17/15

\*QAE/DA/Engineer name if attached in Electronic Procurement System, otherwise, signature and date.

**Evaluation Criteria**

The ANSI/ASME NQA-1 requirements checked below apply to this procurement. Clarifications are provided when the extent of coverage varies or when exceptions are taken. If no clarification is provided, the requirement applies as written.

**Section A**

ASME Version	NQA-1	NQA-1a	NQA-1b
Edition/Year	<input checked="" type="checkbox"/> 2008 <input type="checkbox"/> 2004	<input checked="" type="checkbox"/> 2009 <input type="checkbox"/> 2005	<input type="checkbox"/> 2007

**NQA-1 Part I**

(All) OR (Specify)

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| <ul style="list-style-type: none"> <li><input type="checkbox"/> 1. Organization           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Structure and Responsibility</li> <li><input type="checkbox"/> 300 Interface Control</li> </ul> </li> <li><input type="checkbox"/> 2. Quality Assurance Program           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Indoctrination and Training</li> <li><input checked="" type="checkbox"/> 300 Qualification Requirements</li> <li><input checked="" type="checkbox"/> 400 Records of Qualification (2008)</li> <li><input type="checkbox"/> 400 Certification and Qualification (2004)</li> <li><input checked="" type="checkbox"/> 500 Records</li> </ul> </li> <li><input type="checkbox"/> 3. Design Control           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Design Input</li> <li><input checked="" type="checkbox"/> 300 Design Process</li> <li><input checked="" type="checkbox"/> 400 Design Analyses</li> <li><input checked="" type="checkbox"/> 500 Design Verification</li> <li><input checked="" type="checkbox"/> 600 Change Control</li> <li><input checked="" type="checkbox"/> 700 Interface Control</li> <li><input type="checkbox"/> 800 Software Design Control</li> <li><input checked="" type="checkbox"/> 900 Documentation and Records</li> </ul> </li> <li><input checked="" type="checkbox"/> 4. Procurement Document Control           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Content of the Procurement Documents</li> <li><input type="checkbox"/> 300 Procurement Document Review</li> <li><input type="checkbox"/> 400 Procurement Document Changes</li> </ul> </li> <li><input checked="" type="checkbox"/> 5. Instruction Procedures and Drawings           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> </ul> </li> <li><input checked="" type="checkbox"/> 6. Document Control           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Document Control</li> <li><input type="checkbox"/> 300 Document Changes</li> </ul> </li> <li><input type="checkbox"/> 7. Control of Purchased Items and Services           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Supplier Evaluation Selection</li> <li><input type="checkbox"/> 300 Bid Evaluation</li> <li><input checked="" type="checkbox"/> 400 Control of Supplier Generated Documents</li> <li><input checked="" type="checkbox"/> 500 Acceptance of Item or Service</li> <li><input checked="" type="checkbox"/> 600 Control of Supplier Nonconformances</li> <li><input type="checkbox"/> 700 Commercial Grade Items and Services</li> <li><input checked="" type="checkbox"/> 800 Records</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 8. Identification and Control of Items           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Identification Methods</li> <li><input type="checkbox"/> 300 Specific Requirements</li> </ul> </li> <li><input checked="" type="checkbox"/> 9. Control of Special Processes           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Process Control</li> <li><input type="checkbox"/> 300 Responsibility</li> <li><input type="checkbox"/> 400 Records</li> </ul> </li> <li><input type="checkbox"/> 10. Inspection           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Inspection Requirements</li> <li><input checked="" type="checkbox"/> 300 Inspection Hold Points</li> <li><input checked="" type="checkbox"/> 400 Inspection Planning</li> <li><input checked="" type="checkbox"/> 500 In-Process Inspection</li> <li><input checked="" type="checkbox"/> 600 Final Inspections</li> <li><input type="checkbox"/> 700 Records (2004)</li> <li><input type="checkbox"/> 700 Inspections During Operations (2008)</li> <li><input checked="" type="checkbox"/> 800 Records (2008)</li> </ul> </li> <li><input type="checkbox"/> 11. Test Control           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input checked="" type="checkbox"/> 200 Test Requirements</li> <li><input checked="" type="checkbox"/> 300 Test Procedures (other than computer programs)</li> <li><input type="checkbox"/> 400 Computer Program Test Procedures</li> <li><input checked="" type="checkbox"/> 500 Test Results</li> <li><input checked="" type="checkbox"/> 600 Test Records</li> </ul> </li> <li><input checked="" type="checkbox"/> 12. Control of Measuring and Test Equipment           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Selection</li> <li><input type="checkbox"/> 300 Calibration and Control</li> <li><input type="checkbox"/> 400 Records</li> </ul> </li> <li><input type="checkbox"/> 13. Handling, Storage and Shipping           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 Basic</li> <li><input type="checkbox"/> 200 Special Requirements</li> <li><input type="checkbox"/> 300 Procedures</li> <li><input type="checkbox"/> 400 Tools and Equipment</li> <li><input type="checkbox"/> 500 Operators</li> <li><input checked="" type="checkbox"/> 600 Marking or Labeling</li> </ul> </li> <li><input checked="" type="checkbox"/> 14. Inspection, Test and Operating Status           <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 Basic</li> </ul> </li> </ul> |
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<input checked="" type="checkbox"/> <b>15. Control of Non-Conforming Items</b> <input type="checkbox"/> 100 Basic <input type="checkbox"/> 200 Identification <input type="checkbox"/> 300 Segregation <input type="checkbox"/> 400 Disposition  <input checked="" type="checkbox"/> <b>16. Corrective Action</b> <input type="checkbox"/> 100 Basic  <input type="checkbox"/> <b>17. Quality Assurance Records</b> <input checked="" type="checkbox"/> 100 Basic <input checked="" type="checkbox"/> 200 Generation of Records <input checked="" type="checkbox"/> 300 Authentication of Records <input checked="" type="checkbox"/> 400 Classification <input type="checkbox"/> 500 Receipt Control of Records	<b>17. Quality Assurance Records (continued)</b> <input type="checkbox"/> 600 Storage <input type="checkbox"/> 700 Retention <input type="checkbox"/> 800 Receipt Control of Records  <input type="checkbox"/> <b>18. Audits</b> <input checked="" type="checkbox"/> 100 Basic <input type="checkbox"/> 200 Scheduling <input type="checkbox"/> 300 Preparation <input type="checkbox"/> 400 Performance <input type="checkbox"/> 500 Reporting <input type="checkbox"/> 600 Response <input type="checkbox"/> 700 Follow-Up Action <input type="checkbox"/> 800 Records
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<b>NQA-1 Part II (Subparts)</b> (All) OR (Specify) <input type="checkbox"/> <b>Introduction</b> <input type="checkbox"/> 100 Purpose <input type="checkbox"/> 200 Applicability <input type="checkbox"/> 300 Responsibility <input type="checkbox"/> 400 Planning and Procedures <input type="checkbox"/> 500 Definitions <input type="checkbox"/> 600 Multiunit Facility Provisions  <input type="checkbox"/> <b>2.1 Cleaning of Fluid Systems and Associated Components for Nuclear Power Plants</b> <input type="checkbox"/> 100 General <input type="checkbox"/> 200 General Requirements <input type="checkbox"/> 300 Cleanness Criteria <input type="checkbox"/> 400 Manufacturing Phase Cleanness <input type="checkbox"/> 500 Cleanness Prior to Inspection <input type="checkbox"/> 600 Cleanness During Installation <input type="checkbox"/> 700 Maintenance of Installation Cleanness <input type="checkbox"/> 800 Preoperational Cleaning <input type="checkbox"/> 900 Layup and Postlayup Cleaning <input type="checkbox"/> 1000 Postoperational Repairs and Modifications <input type="checkbox"/> 1100 Records  <input type="checkbox"/> <b>2.2 Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants</b>  <input type="checkbox"/> 100 General <input type="checkbox"/> 200 General Requirements <input type="checkbox"/> 300 Packaging <input type="checkbox"/> 400 Shipping <input type="checkbox"/> 500 Receiving <input type="checkbox"/> 600 Storage <input type="checkbox"/> 700 Handling <input type="checkbox"/> 800 Records	<b>Quality Assurance Requirements for:</b>  <input type="checkbox"/> <b>2.3 Housekeeping for Nuclear Power Plants</b> <input type="checkbox"/> 100 General <input type="checkbox"/> 200 General Requirements <input type="checkbox"/> 300 Requirements <input type="checkbox"/> 400 Records  <input type="checkbox"/> <b>2.5 Installation, Inspection, and Testing of Structural Concrete, Structural Steel, Soils, and Foundations for Nuclear Power Plants</b> <input type="checkbox"/> 100 General <input type="checkbox"/> 200 General Requirements <input type="checkbox"/> 300 Requirements <input type="checkbox"/> 400 Preconstruction Verification <input type="checkbox"/> 500 Inspection of Soils and Earthwork <input type="checkbox"/> 600 Inspection of Foundation Pile and Caisson Construction <input type="checkbox"/> 700 Inspection of Concrete Construction <input type="checkbox"/> 800 Inspection of Steel Construction <input type="checkbox"/> 900 Data Analysis and Evaluation <input type="checkbox"/> 1000 Records  <input type="checkbox"/> <b>2.7 Computer Software for Nuclear Facility Applications</b>  <input type="checkbox"/> 100 General <input type="checkbox"/> 200 General Requirements <input type="checkbox"/> 300 Software Acquisition <input type="checkbox"/> 400 Software Engineering Method <input type="checkbox"/> 500 Standards, Conventions, and Other Work Practices <input type="checkbox"/> 600 Support Software <input type="checkbox"/> 700 References
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| <p><input type="checkbox"/> <b>2.8 Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 General</li> <li><input type="checkbox"/> 200 General Requirements</li> <li><input type="checkbox"/> 300 Preinstallation Verification</li> <li><input type="checkbox"/> 400 Control During Installation Process</li> <li><input type="checkbox"/> 500 Installed Systems Inspection and Tests</li> <li><input type="checkbox"/> 600 Data Analysis and Evaluation</li> <li><input type="checkbox"/> 700 Records</li> </ul> <p><input type="checkbox"/> <b>2.14 Commercial Grade Items and Services</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 100 General</li> <li><input checked="" type="checkbox"/> 200 Definition Applications</li> <li><input checked="" type="checkbox"/> 300 Utilizations</li> <li><input checked="" type="checkbox"/> 400 Technical Evaluation</li> <li><input checked="" type="checkbox"/> 500 Critical Characteristics</li> <li><input checked="" type="checkbox"/> 600 Methods of Accepting Commercial Grade Items</li> <li><input type="checkbox"/> 700 Commercial Grade Services</li> <li><input checked="" type="checkbox"/> 800 Documentation</li> </ul> <p><input type="checkbox"/> <b>2.15 Hoisting, Rigging, and Transporting of Items for Nuclear Power Plants</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 General</li> <li><input type="checkbox"/> 200 General Requirements</li> <li><input type="checkbox"/> 300 Types of Handling Equipment</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 400 Design Requirements</li> <li><input type="checkbox"/> 500 Acceptance Criteria for Manufactured Handling Equipment</li> <li><input type="checkbox"/> 600 Testing, Inspection, and Maintenance</li> <li><input type="checkbox"/> 700 Control of the Use of Handling Equipment</li> <li><input type="checkbox"/> 800 Qualifications of Personnel</li> <li><input type="checkbox"/> 900 Records</li> </ul> <p><input type="checkbox"/> <b>2.18 Maintenance of Nuclear Facilities</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 General</li> <li><input type="checkbox"/> 200 General Requirements</li> <li><input type="checkbox"/> 300 Preventative Maintenance</li> <li><input type="checkbox"/> 400 Corrective Maintenance</li> <li><input type="checkbox"/> 500 Records</li> </ul> <p><input type="checkbox"/> <b>2.20 Subsurface Investigations for Nuclear Power Plants</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 100 General</li> <li><input type="checkbox"/> 200 General Requirements</li> <li><input type="checkbox"/> 300 Verification Requirements</li> <li><input type="checkbox"/> 400 Field Investigation Requirements</li> <li><input type="checkbox"/> 500 Laboratory Testing</li> <li><input type="checkbox"/> 600 Evaluation and Analysis</li> <li><input type="checkbox"/> 700 Records</li> </ul> |
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**Section C – Other National Standards**

	National Standard Title:	ID Doc. Designation	Edition/Year	Section
a.	_____	_____	_____	_____
b.	_____	_____	_____	_____
c.	_____	_____	_____	_____
d.	_____	_____	_____	_____
e.	_____	_____	_____	_____
f.	_____	_____	_____	_____
g.	_____	_____	_____	_____

- Section D. Other Requirements or Clarifications, indicate requirement edition or year/date (such as NQA-1, Part, III, or IV)**
- 1 (100, 200)
  - 2 (100, 200, 300, 301 [RT, PT, VT], 302, 304, 400, 500)
  - 3 (100, 200, 300 [except 300 (c)(3)], 400 [except 401], 500, 600 [Except 601], 700, 900)
  - 4 (100, 200, 300, 400)
  - 5 (100)
  - 6 (100, 200, 300)
  - 7 (100, 200, 400, 500 [Exclude 506], 600, 800)
  - 8 (100, 200, 300)
  - 9 (100, 200 [Except 203], 300, 400)
  - 10 (100, 200, 300, 400, 500, 600, 800)
  - 11 (100, 200 [Except 200 (a) computer software requirements, (c)(d)], 300, 500, 600 [Except 602])
  - 12 (100, 200, 300, 400)
  - 13 (100, 600)
  - 14 (100 [except Nuclear Facility])

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15 (100, 200, 300, 400)			
16 (100)			
17 (100, 200, 300 [Except 300 (b)], 402, 800)			
18 (100)			
Part II, SubPart 2.14, (100, 200, 300, 400, Hardware Only, 401 [exclude 4th Para. "Services shall be evaluated" & "5th Para.], 500, 600, 601, 602 [exclude 4th Para], and 800 [except 800(h)]) Requirements only applicable if sub-contractor intends to utilize commercial vendors for safety-significant material procurement (hardware only) instead of those listed on their evaluated suppliers list.			
Part II, Subpart 2.14 (Commercial Grade Dedication of Weld Filler Materials and Raw Materials Only, 300(c), 300(d), 500, 601 (b)(1), 601(b)(2), 601(b)(3), 800(b), 800(d), 800(c), 800(i)). Requirements only applicable if sub-contractor intends to utilize commercial vendors for safety-significant material procurement (weld filler and raw materials only) instead of those listed on their evaluated suppliers list.			