



## Assessment and Repair - External Corrosion Direct Assessment (ECDA)

**14. ECDA Post-Assessment (detail)** *Do records demonstrate that the requirements for post assessment were met?* (AR.EC.ECDAPOSTASSESS.R) (detail)

192.947(g) (192.925(b)(4))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Last ECDA in 2016, nothing found on P04, no indications shown

## Assessment and Repair - Internal Corrosion Direct Assessment

**11. Post-Assessment Evaluation and Monitoring (detail)** *Do records demonstrate that the operator assessed the effectiveness of the ICDA process?* (AR.IC.ICDAPOSTASSESS.R) (detail)

192.947(g) (192.927(c)(4)(i); 192.927(c)(4)(ii); 192.477)

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** ICDA Summary written on 12/31/2011, assessment concludes that risk of internal corrosion is low, attached in inspection

## Assessment and Repair - In-Line Inspection (Smart Pigs)

**10. Validation of ILI Results (confirm)** *From observation of field activities, do the employees and vendors validate ILI assessment results per their process?* (AR.IL.ILIVALIDATE.O) (confirm)

192.921(a)(1)

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No ILI performed

**14. ILI Acceptance Criteria (detail)** *Do records indicate adequate implementation of the process for ILI survey acceptance?* (AR.IL.ILIACCEPCRITERIA.R) (detail)

192.947(g) (192.921(a))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No ILI performed

**18. Compliance with ILI Procedures (detail)** Are O&M and IMP procedural requirements for the performance of ILI assessments followed? (AR.IL.ILIIMPLEMENT.O) (detail)

192.921(a)(1) (192.620(d))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No ILI performed

## Assessment and Repair - Other Technology

**5. Other Technology (detail)** Do records demonstrate that the assessments were performed in accordance with the process and vendor recommendations and that defects were identified and categorized within 180 days, if applicable? (AR.OT.OTPLAN.R) (detail)

192.947(d) (192.921(a)(4); 192.933(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes**

## Assessment and Repair - Integrity Assessment Via Pressure Test

**5. Pressure Test Results (confirm)** Do the test records validate the pressure test? (AR.PTI.PRESSTESTRESULT.R) (confirm)

192.517(a) (192.505(a); 192.505(b); 192.505(c); 192.505(d); 192.505(e); 192.507(a); 192.507(b); 192.507(c); 192.513(a); 192.513(b); 192.513(c); 192.513(d); 192.517(b); 192.617; 192.619(a); 192.919(e); 192.921(a)(2))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Pressure test results for Felida Gate Station are attached

## Assessment and Repair - Repair Criteria

**10. Field Inspection - Remedial Actions (IM) (detail)** *Is anomaly remediation adequate for the covered segments being observed?* (AR.RC.REMEDIATION.O) (detail)

192.933(c) (192.933(a); 192.933(d))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No anomalies since 2011

## Assessment and Repair - Repair Methods and Practices

**2. Safety While Making Repair (confirm)** *Are repairs made in a safe manner and to prevent damage to persons and property?* (AR.RMP.SAFETY.O) (confirm)

192.605(b)(9) (192.713(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No repairs since 2011

**5. Prevention of Accidental Ignition (confirm)** *Perform observations of selected locations to verify that adequate steps have been taken by the operator to minimize the potential for accidental ignition.* (AR.RMP.IGNITION.O) (confirm)

192.751(a) (192.751(b); 192.751(c))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes**

**17. Inspection of Welds (confirm)** *Were welds inspected and examined in accordance with 192.241 and 192.243?* (AR.RMP.WELDINSPECT.O) (confirm)

192.241(a) (192.241(b); 192.241(c); 192.243(a); 192.243(b);  
192.243(c); 192.243(d); 192.243(e); 192.243(f))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No welding performed for this inspection period, 2014-2017

**25. Transmission Lines Testing of Repairs (detail)** *Does the operator properly test replacement pipe and repairs made by welding on transmission lines? (AR.RMP.WELDTTEST.O) (detail)*

192.719(a) (192.719(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No repairs during inspection period, 2014-2017

## Assessment and Repair - Stress Corrosion Cracking

**6. Assessment Method (High pH SCC) (detail)** *Do records demonstrate that an assessment was performed using one of the methods specified in B31.8S Appendix A3? (AR.SCC.SCCDAMETHOD.R) (detail)*

192.947(g) (192.929(b)(2))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Don't meet all criteria in B31.8S

## Design and Construction - Construction

**18. Inspection of Materials (detail)** *Are pipe lengths and other pipeline components visually inspected to ensure they are not damaged? (DC.CO.INSPECTVISUAL.O) (detail)*

192.307

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not performed during inspection

**21. Repair of Steel Pipe (detail)** *Are repairs to steel pipe made in accordance with Å§192.309? (DC.CO.REPAIR.O) (detail)*

192.309(a) (192.309(b); 192.309(c); 192.309(d); 192.309(e))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No repairs during inspection period, 2014-2017

**34. Installation of Pipe in a Ditch (detail)** *When pipe is placed in the ditch, is it installed so as to fit the ditch, minimize stresses, and protect the pipe coating from damage?* (DC.CO.INSTALL.O) (detail)

192.319(a) (192.319(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No installs during inspection period, 2014-2017

## Design and Construction - Construction Weld Inspection

**3. Inspection and Test of Welds (detail)** *Are individuals who perform visual inspection of welding qualified?* (DC.WELDINS.P.WELDVISUALQUAL.O) (detail)

192.241(a) (192.241(b); 192.241(c); 192.807(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not performed during inspection

**6. Nondestructive Test and Interpretation Procedures (detail)** *Are NDT procedures adequate?* (DC.WELDINS.P.WELDNDT.O) (detail)

192.243(a) (192.243(b)(1); 192.243(b)(2); 192.243(c); 192.243(a))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not performed during inspection

**9. Repair or Removal of Weld Defects (detail)** *Are unacceptable welds removed and/or repaired?* (DC.WELDINS.P.WELDREPAIR.O) (detail)

192.245(a) (192.245(b); 192.245(c))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No welds during inspection period, 2014-2017

## Design and Construction - Construction Welding Procedures

### 3. Welding Procedures (detail) *Are weld procedures being qualified in accordance with 192.225?*

(DC.WELDPROCEDURE.WELD.O) (detail)

192.225(a) (192.225(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not performed during inspection

### 6. Welding Weather (detail) *Are welding operations are protected from certain weather conditions?*

(DC.WELDPROCEDURE.WELDWEATHER.O) (detail)

192.231

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No welds during inspection period, 2014-2017

### 11. Preparation for Welding (detail) *Are welding preparations made in accordance with 192.235?*

(DC.WELDPROCEDURE.WELDPREP.O) (detail)

192.235

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No welds during inspection period, 2014-2017

## Design and Construction - Pressure Testing

### 3. General - Testing Requirements (detail) *Is pressure testing conducted in accordance with 192.503?*

(DC.PT.PRESSTEST.O) (detail)

192.503(a) (192.503(b); 192.503(c); 192.503(d))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No pressure test during inspection period, 2014-2017

**6. Strength Test Requirements for SMYS > 30%. (detail)** *Is pressure testing conducted in accordance with AS192.505? (DC.PT.PRESSTESTHIGHSTRESS.O) (detail)*

192.505(a) (192.505(b); 192.505(c); 192.505(d); 192.505(e))	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
					X	

**Notes** No pipe >30% SMYS

## Design and Construction - Training and Qualification

**4. Skills and Knowledge of Personnel Performing Covered Tasks - Contractor employees (detail)** *Do selected contractor individuals performing covered tasks demonstrate adequate skills and knowledge? (DC.TQ.OQCONTRACTOR.O) (detail)*

192.805(b) (Operators OQ program manual)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
					X	

**Notes** Not performed during inspection

**6. Skills and Knowledge of Personnel Performing Covered Tasks - Operator Employee (detail)** *Do selected operator individuals performing covered tasks demonstrate adequate skills and knowledge? (DC.TQ.OQPLANEMPLOYEE.O) (detail)*

192.805(b) (Operators OQ program manual)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
		X				

**Notes** Field employees performing odor test, CP reads and valve inspections seemed knowledgeable with respect to performed tasks.

**8. Qualification of Personnel who Oversee and Perform Excavations and Backfilling Operations (detail)** *Do selected individuals who oversee marking, trenching and backfilling operations demonstrate adequate skills and knowledge? (DC.TQ.EXCAVATE.O) (detail)*

192.805(b) (ADB-06-01)	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
					X	

**Notes** No excavation or backfilling during inspection period, 2014-2017



**10. Qualification of Personnel Performing Hot Taps (detail)** *Do personnel performing hot taps demonstrate adequate skills and knowledge? (DC.TQ.HOTTAP.O) (detail)*

192.805(b) (192.627)

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No hot tapping during inspection period, 2014-2017

## Integrity Management - High Consequence Areas

**8. IM High Consequence Areas - Identification Method 1 (Class Locations) (detail)** *Do records demonstrate that application of the 192.903 High Consequence Area definition (1) for the identification of HCAs was adequate? (IM.HC.HCAMETHOD1.R) (detail)*

192.947(d) (192.903 (1)(i); 192.903(1)(ii); 192.903(1)(iii); 192.903(1)(iv))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not used

**10. IM High Consequence Areas - Identification Method 2 (Potential Impact Radius) (detail)** *Do records demonstrate that the application of 192.903 High Consequence Area definition (2) for identification of HCAs was adequate? (IM.HC.HCAMETHOD2.R) (detail)*

192.947(d) (192.905(a); 192.903(2)(ii))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Evaluation performed by Integrity Plus. NWN staff briefly described the report from Integrity Plus

**13. IM High Consequence Areas (detail)** *Are HCAs correctly identified per up-to-date information? (IM.HC.HCADATA.O) (detail)*

192.905(c)

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Performed by Integrity Plus

## Integrity Management - Preventive and Mitigative Measures

**3. P&M Measures - Third Party Damage (detail)** *Does the preventive and mitigative measure process include requirements that threats due to third party damage be addressed? (IM.PM.PMMTPD.P) (detail)*

192.917(e)(1) (192.935(b)(1); 192.935(e))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Transmission Integrity Management Program Section 3.1.3

**14. P&M Measures - Automatic Shut-Off Valves or Remote Control Valves (detail)** *Do records demonstrate that the operator has determined, based on risk, whether automatic shut-off valves or remote control valves should be added to protect high consequence areas? (IM.PM.PMMASORCV.R) (detail)*

192.947(d) (192.935(c))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** NWN did risk analysis on March 14, 2017

**15. P&M Measures - Implementation (detail)** *Have identified measures to prevent a pipeline failure and to mitigate the consequences of a pipeline failure in an HCA been implemented? (IM.PM.PMMIMPLEMENT.O) (detail)*

192.935(a)

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** NWN performs Direct Assessment at regular intervals

## Maintenance and Operations - ROW Markers, Patrols, Leakage Survey and Monitoring

**4. Placement of ROW Markers (confirm)** (presented above) *Are line markers placed and maintained as required? (MO.RW.ROWMARKER.O) (confirm)*

192.707(a) (192.707(b); 192.707(c); 192.707(d); CGA Best Practices, Practice 2-5; CGA Best Practices, Practice 4-20)

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes**

**5. ROW Conditions (confirm)** (presented above) *Are the ROW conditions acceptable for the type of patrolling used?* (MO.RW.ROWCONDITION.O) (confirm)

192.705(a) (192.705(c))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes**

## Public Awareness and Damage Prevention - ROW Markers, Patrols, Monitoring

**4. Placement of ROW Markers (confirm)** (presented above) *Are line markers placed and maintained as required?* (MO.RW.ROWMARKER.O) (confirm)

192.707(a) (192.707(b); 192.707(c); 192.707(d); CGA Best Practices, Practice 2-5; CGA Best Practices, Practice 4-20)

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes**

**5. ROW Conditions (confirm)** (presented above) *Are the ROW conditions acceptable for the type of patrolling used?* (MO.RW.ROWCONDITION.O) (confirm)

192.705(a) (192.705(c))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes**

## Time-Dependent Threats - External Corrosion - Coatings

**12. Exposed Pipe Coating (detail)** *Is exposed buried pipe coating inspected to determine if it is deteriorating?* (TD.COAT.EXPOSEINSPECT.O) (detail)

192.459

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** Not performed during inspection

## Training and Qualification - OQ Protocol 9

**1. Covered Task Performance (detail)** (presented above) *Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures.*  
(TQ.PROT9.TASKPERFORMANCE.O) (detail)

192.801(a) (192.809(a))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Witnessed Valve inspections, odor testing and casing inspection. All tasks appeared to be in accordance with procedures

**2. Qualification Status (detail)** (presented above) *Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.* (TQ.PROT9.QUALIFICATIONSTATUS.O) (detail)

192.801(a) (192.809(a))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** OQ's attached

**3. Abnormal Operating Condition Recognition and Reaction (detail)** (presented above) *Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed.*  
(TQ.PROT9.AOCRECOG.O) (detail)

192.801(a) (192.809(a))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** Employees testing regulators reacted accordingly to AOC when testing set point of regulator. Regulator failed to lockup and employees corrected the condition.

**4. Verification of Qualification (detail)** (presented above) *Verify the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.*  
(TQ.PROT9.VERIFYQUAL.O) (detail)

192.801(a) (192.809(a))

Sat +	Sat	Concern	Unsat	NA	NC
	X				

**Notes** OQ records attached

**5. Program Inspection Deficiencies (detail)** (presented above) *Have potential issues identified by the headquarters inspection process been corrected at the operational level?* (TQ.PROT9.CORRECTION.O) (detail)

192.801(a) (192.809(a))	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
		X				

**Notes**

## Training and Qualification - Qualification of Personnel - Specific Requirements

**5. Qualification of Personnel Tapping Pipelines under Pressure (detail)** *Do personnel performing hot taps demonstrate adequate skills and knowledge?* (TQ.QU.HOTTAPQUAL.O) (detail)

192.627 (192.805(h))	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
					X	

**Notes** Not performed during inspection

**8. Qualification of Personnel who Oversee and Perform Excavations and Backfilling Operations (detail)** *Do individuals who oversee marking, trenching, and backfilling operations demonstrate adequate skills and knowledge?* (TQ.QU.EXCAVATE.O) (detail)

192.805(b) (192.805(h); ADB-06-01; 192.801(a); 192.328(a); 192.328(c))	<b>Sat +</b>	<b>Sat</b>	<b>Concern</b>	<b>Unsat</b>	<b>NA</b>	<b>NC</b>
					X	

**Notes** Not performed during inspection

## Training and Qualification - Qualification of Personnel - Specific Requirements (O and M Construction)

### 6. Qualification of Welders (detail) *Do welders demonstrate adequate skills and knowledge?*

(TQ.QUOMCONST.WELDER.O) (detail)

192.227(a) (192.227(b); 192.229(a); 192.229(b); 192.229(c); 192.229(d); 192.805(h); 192.807(a); 192.328(a); 192.328(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No welding/welders seen during inspection

### 9. Qualification of Nondestructive Testing Personnel (detail) *Do nondestructive testing personnel demonstrate adequate skills and knowledge?*

(TQ.QUOMCONST.NDT.O) (detail)

192.243(b)(2) (192.807(a); 192.328(a); 192.328(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No NDT during inspection

## Training and Qualification - Training of Personnel

### 3. Emergency Response Training (detail) *Do emergency response personnel demonstrate adequate skills and knowledge?*

(TQ.TR.TRAINING.O) (detail)

192.615(b)(2) (192.805(b))

Sat +	Sat	Concern	Unsat	NA	NC
				X	

**Notes** No emergency response personnel seen during inspection

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