

Results and Notes Review

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AR.EC: External Corrosion Direct Assessment (ECDA)

Question ID, References	AR.EC.ECDAINDIRECT.O , 195.588(c) (195.452(j)(5)(iii))
Question Text	Was the indirect examination performed in accordance with the operator's procedures and 195.588(b)(3)?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review.
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Question ID, References	AR.EC.ECDADIRECT.O , 195.588(b)(4) (195.452(j)(5)(iii))
Question Text	Was the direct examination performed in accordance with requirements?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review.
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Question ID, References	AR.EC.ECDAPOSTASSESS.R , 195.589(c) (195.588(b)(5); 195.452(j)(3); 195.452(j)(4))
Question Text	Do records indicate that requirements were met for post assessment?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review.

AR.IL: In-Line Inspection (Smart Pigs)

Question ID, References	AR.IL.ASESSESSCHEDULE.R , 195,452(l)(1)(ii) (195.452(b)(5); 195.452(c); 195.452(d); 195.452(f)(2); 195.452(f)(5))
Question Text	Does a review of records indicate that continual assessments are implemented as specified in the plan?
Result	Sat
Assets Covered	Unit 515
Result Notes	Reviewed records for segments YP 02, 03 Assessment Planning History YP 01-YP03. In PT DMS (pipeline terminal data management system) internal P66 program which integrates data.
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Question ID, References	AR.IL.ILIINTEGRATION.R , 195.452(l)(1)(ii) (195.452(g))
Question Text	Did the operator integrate other data/information when evaluating tool data/results in the records reviewed?
Result	Sat
Assets Covered	Unit 515
Result Notes	Use Cumulative Damage Assessment/Corrosion Damage Assessment Excel Spreadsheet model. Are transitioning to Tableau which takes all manual operations and automatically stacks layers of previous tool runs, corrosion data, topography, etc. allowing views based on alignment sheets. Multiple ways of viewing data and potential areas to dig. Tableau is currently available to P66 employees and will be rolled out in 2016 integrating dynamic risk modelling in conjunction with Tableau viewing features. Reviewed TSD 8000 Line PIpe External Corrosion Cracking Threat Assessment for segment YP 02 and 17 as examples. Use crack tools UT and TFI based on risk analysis. YP03 looked at Pipeline Inspection System Results Verification-MFL Tool. API 1163. ANST ILI PQ 2005 Table 1A and 1B 3 and 3B

Question ID, References AR.IL.ILIIMPLEMENT.O , 195.452(b)(5)

Question Text Have the ILI procedures been followed?

Result Sat

Assets Covered Unit 515

Result Notes Integrity Engineering Procedure IEP 2.03 ILI Assessment Procedure. If immediate is identified in prelim results, derate to 80% of historical operating pressure per MPR 4104. Immediate digs are DOT regulated (in HCA) priority Features are immediate outside HCA-both are handled the same in terms of time frames."E Form" is the exposed pipe condition report on which is used to confirm, rate and then close out the dig in P66 system. IEP 2.05 CPL Aid procedures manual.
Checked a metal loss anomaly for YP04 16989+42.71 from 2010 and 2015 to see if found previously and what changed in 5 years. Was found and did not meet threshold in 2010. found 62% metal loss in 2010, action level is 70% in HCA. In 2015 was 80% metal loss and met criteria. Repair was a Type B sleeve.
Looked at E form for repair YP-04-15-0504 which includes OQ for NDT and welder, Mill certs for sleeve and welding procedure and testing for welder Mark Gist.

AR.PTI: Integrity Assessment Via Pressure Test

Question ID, References AR.PTI.PRESSTESTRESULT.R , 195.452(l)(1)(ii) (195.452(f)(2); 195.452(c))

Question Text From the review of the results of pressure tests, do the test records validate the pressure test?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.
Did look at breakout tanks 73 (Spokane), 28 (Moses Lake), Tank 81 (Spokane), Tank 97 2001 new bottom installed. Tank 72 hydrostatic test done 6/2010.

Question ID, References AR.PTI.PRESSTESTRESULT.O , 195.452(j)(5)(ii) (195.452(c)(1)(i)(b))

Question Text Was the pressure test conducted in accordance with procedures?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

AR.OT: Other Technology

Question ID, References AR.OT.OTPLAN.R , 195.452(l)(1)(ii) (195.452(j)(5)(iv); 195.452(f)(5))

Question Text From the review of selected integrity assessments results, do records show the assessments were performed in accordance with procedures and vendor recommendations?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

Question ID, References AR.OT.OTPLAN.O , 195.452(j)(5)(iv)

Question Text Has the process for the use of "Other Technology" been followed?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

Question ID, References AR.OT.OTDEFECTCAT.R , 195.452(l)(1)(ii) (195.452(f)(4); 195.452(h)(2))

Question Text	From the review of the results of selected integrity assessments, were defects identified and categorized within 180 days or other applicable timeframe?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review.

AR.RC: Repair Criteria

Question ID, References AR.RC.REMEDIATION.O , 195.452(h) (195.402(a); 195.402(c)(14); 195.422(a); 195.569; 195.589(c))

Question Text Are anomaly remediation and documentation of remediation adequate?

Result Sat

Assets Covered Unit 515

Result Notes TSD 3008 Evaluation /Repair of External/Internal Pineapple Defects and Anomalies..
 Looked at following repairs:
 YP04-2015-504 Type B sleeve OK. Lamination was also found on this line in 2015 and TSD 3008 also allows a Type B sleeve. This E Form has not come back from the field.
 YP03-2015-504224+58.42 TDW combo tool from 2014. Tool called dent with metal loss-0.15% dent at 12:00. Metal loss not found but difficult area to access so installed a Type B sleeve. Justin Sorlie, welder for Weldcon. OQ OK, Checked NDT testing for sleeve. OK.
 YP 02-14-0508 Recoat. Tool called 51% and 21% wall loss--midwall inclusions, mill defects. Did not meet repair criteria. Recoated with RD6 and rockshield.. Josh Rogstad, SGS, NDT technician. Checked OQ, OK.

AR.RCHCA: Repair Criteria (HCA)

Question ID, References AR.RCHCA.DISCOVERY.R , 195.452(h)(2)

Question Text From the review of the results of selected ILI and remediation projects, did discovery of all anomalies occur promptly, but no later than 180 days of completion of the assessment?

Result Sat

Assets Covered Unit 515

Result Notes 30-d from final report to "discovery" date. Checked three anomalies for timeliness, OK within time frames.
 YP 03-14-0504 180-d
 YP 04-15-0504 immediate
 YP 02-14-0508 365-d

Question ID, References AR.RCHCA.PRESSREDUCE.R , 195.452(l)(1)(ii) (95.404(a); 195.404 (b); 195.452(h)(1)(ii); 195.452(h)(4)(i); 195.55(a))

Question Text From the review of the results of ILI and remediation projects, was an acceptable pressure reduction promptly taken for each Immediate Repair condition or when a repair schedule could not be met?

Result Sat

Assets Covered Unit 515

Result Notes TSD 3008 requires pressure reduction for certain immediate features. Derate the pipeline until repair is completed and/or tool call out is verified. Procedure includes emails to stakeholder including control room. Control room makes immediate changes to set points. If condition lasts longer than 30-d, hard set points are changed. YP 04-15-0504 immediate, metal loss >80% Discovery 4/13/15 Due 4/13/2015 (immediately derated by 20%) Repaired 5/12/2015.

Question ID, References AR.RCHCA.DEFECTCAT.R , 195.452(l)(1)(ii) (195.452(h)(4))

Question Text From the review of the results of integrity assessments and remediation projects, were there any defects that were not properly categorized?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

Question ID, References AR.RCHCA.IMSCHEDULE.R , 195.452(l)(1)(ii) (195.452.(h)(3))

Question Text Do records demonstrate that the operator has met the schedule for remediating a condition in accordance with 195.452(h)(3)?

Result Sat

Assets Covered Unit 515

Result Notes YP 03-14-0504 Top side dent 180 day, Discovery 6/39/2014 Due Date 12/27/2014 Repaired 11/17/2014 OK
 YP 04-15-0504 immediate, metal loss >80% Discovery 4/13/15 Due 4/13/2015 (immediately derated by 20%) Repaired 5/12/2015
 YP 02-14-0508 1 year in HCA but does not meet criteria-metal loss Discover 6/25/2013, Due 6/25/2014, Repaired (recoated) 8/13/2013 (no metal loss, inclusions verified by NDT)

Question ID, References AR.RCHCA.SCHEDULEIMPL.R , 195.452(l)(1)(ii) (195.452(h)(4))

Question Text From the review of the results of selected ILI and remediation projects, were defects in segments that could affect an HCA remediated or dispositioned within the applicable mandatory time limits of 195.452(h)(4)?

Result Sat

Assets Covered Unit 515

Result Notes YP 03-14-0504 Top side dent 180 day, Discovery 6/39/2014 Due Date 12/27/2014 Repaired 11/17/2014 OK
 YP 04-15-0504 immediate, metal loss >80% Discovery 4/13/15 Due 4/13/2015 Repaired 5/12/2015
 YP 02-14-0508 1 year in HCA but does not meet criteria-metal loss Discover 6/25/2013, Due 6/25/2014, Repaired (recoated) 8/13/2013 (no metal loss, inclusions verified by NDT)
 YP 04-15-0504 20% pressure reduction taken immediatly, 30 days to repair before hard set points need to be implemented. OK

AR.RCOM: Repair Criteria (O and M)

Question ID, References AR.RCOM.REMEDIATIONOM.O , 195.422(a) (195.422(b); 195.401(b)(1)195.402(a); 195.402(c)(14); 195.569; 195.579(c))

Question Text Do the performance and documentation of remediation meet procedural requirements for non-IM repairs?

Result Sat

Assets Covered Unit 515

Result Notes TSD 3008 is procedure used for repairs.
 From E Form:
 YP04-15-0505 Sta 16926+09.2: tool called 7% metal loss in dent. Dug and found a series of dents and dent with metal loss (gauge) at 6.7% loss **non HCA--company condition (non DOT)**. PSP -2.22VDC coal tar enamel coating, good condition. Mag particle passed, UT upstream weld 0.144 min, Downstream 0.149 min OK. Repair was a 10 type B sleeve. OK

AR.RMP: Repair Methods and Practices

Question ID, References AR.RMP.SAFETY.O , 195.422(a) (195.402(c)(14))

Question Text	Are repairs made in a safe manner and to prevent injury to persons and/or property damage?
Result	Sat
Assets Covered	Unit 515
Result Notes	MP XXXX, Sta (near Moses Lake). This was a project initiated by CIS issues (low reads). 2 miles of excavate, remove coating and recoat. JHA before going on site. Observed excavation activities to expose line for inspection. No repairs while on site.
Question ID, References	AR.RMP.METHOD.R , 195.404(c)(1) (195.422(a); 195.422(b); 195.452(h)(1))
Question Text	From the review of the results of integrity assessment and remediation projects, were all repairs performed in accordance with procedures and applicable sections of 49 CFR Part 195?
Result	Sat
Assets Covered	Unit 515
Result Notes	YP 03-14-0504 180-d YP 04-15-0504 immediate YP 04-15-0505 Sta 16926+09.2: tool called 7% metal loss in dent. Dug and found a series of dents and dent with metal loss (gauge) at 6.7% loss non HCA--company condition (non DOT) . PSP -2.22VDC coal tar enamel coating, good condition. Mag particle passed, UT upstream weld 0.144 min, Downstream 0.149 min. Repair was a 10' type B sleeve. OK. YP 02-14-0508 Recoat. Tool called 51% and 21% wall loss--midwall inclusions, mill defects. Did not meet repair criteria. Recoated with RD6 and rockshield.
Question ID, References	AR.RMP.REPAIRQUAL.R , 195.505(b) (195.507(a); 195.505(c); 195.452(h)(1))
Question Text	From the review of the results of integrity assessment and remediation projects, were personnel performing repairs, other than welding, qualified for the task they performed?
Result	Sat
Assets Covered	Unit 515
Result Notes	YP 02-14-0508 Recoat. Tool called 51% and 21% wall loss--midwall inclusions, mill defects. Did not meet repair criteria. Recoated with RD6 and rockshield.. Josh Rogstad, SGS, NDT technician. Checked OQ, OK.
Question ID, References	AR.RMP.PIPECONDITION.R , 195.404(c)(1) (195.404(c)(2))
Question Text	From the review of the results of integrity assessment and remediation projects and/or field observation, do repair records document all information needed to understand the conditions of the pipe and its environment and provide the information needed to support the Integrity Management risk model?
Result	Sat
Assets Covered	Unit 515
Question ID, References	AR.RMP.REPLACESTD.R , 195.422(b)
Question Text	From the review of the results of integrity assessment and remediation projects and/or field observation, were components that were replaced constructed to the same or higher standards as the original component?
Result	Sat
Assets Covered	Unit 515
Result Notes	Reviewed Eforms for the following digs. Pipe repair sleeve material met requirements of existing pipe. YP04-2015-504 Type B sleeve OK. Lamination was also found on this line in 2015 and TSD 3008 also allows a Type B sleeve. This E Form has not come back from the field. YP03-2015-504224+58.42 TDW combo tool from 2014. Tool called dent with metal loss-0.15% dent at 12:00. Metal loss not found but difficult area to access so installed a Type B sleeve. Justin Sorlie, welder for Weldcon. OQ OK, Checked NDT testing for sleeve. OK.

YP 02-14-0508 Recoat. Tool called 51% and 21% wall loss--midwall inclusions, mill defects. Did not meet repair criteria. Recoated with RD6 and rockshield.. Josh Rogstad, SGS, NDT technician. Checked OQ, OK.

Question ID, References	AR.RMP.WELDERQUAL.R , 195.214(a) (195.214(b); 195.222(a); 195.222(b); 195.452(h)(1))
Question Text	From the review of the results of integrity assessment and remediation projects, were repairs requiring welding performed by qualified welders using qualified welding procedures?
Result	Sat
Assets Covered	Unit 515
Result Notes	Looked at following repairs: YP04-2015-504 Type B sleeve OK. Lamination was also found on this line in 2015 and TSD 3008 also allows a Type B sleeve. Mike Gist, Welder, OQ OK. This E Form has not come back from the field. YP03-2015-504224+58.42 TDW combo tool from 2014. Tool called dent with metal loss-0.15% dent at 12:00. Metal loss not found but difficult area to access so installed a Type B sleeve. Justin Sorlie, welder for Weldcon. OQ OK, Checked NDT testing for sleeve. OK. YP 02-14-0508 Recoat. Tool called 51% and 21% wall loss--midwall inclusions, mill defects. Did not meet repair criteria. Recoated with RD6 and rockshield.. Josh Rogstad, SGS, NDT technician. Checked OQ, OK.

Question ID, References	AR.RMP.WELDQUAL.R , 195.226(a) (195.226(b); 195.226(c); 195.230(a); 195.230(b); 195.230(c); 195.452(h)(1))
Question Text	From the review of the results of integrity assessment and remediation projects, were weld defects repaired in accordance with §195.226 or §195.230?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review.

Question ID, References	AR.RMP.WELDINSPECT.R , 195.228(a) (195.228(b);195.234(a); 195.234(b); 195.234(c); 195.234(d); 195.234(e); 195.452(h)(1))
Question Text	From the review of the results of integrity assessment and remediation projects, were welds inspected and examined in accordance with 195.228 or 195.234?
Result	Sat
Assets Covered	Unit 515
Result Notes	MPR 6012 Weld Radiographs and MPR 4401 Welding Procedures and Welding Qualification, Section 8.1. Visual Inspection requirements. Section 11.4 are weld compliance report requirements. P66PL-GPL-4401B Weld Visual Inspection Report. This became effective 4-49-2015 based on NOA for Southern Region from earlier this year. This is a daily report. P66PL-GPL-4401A Weld Compliance Report is the check of required parameters per API 1104 or Section IX. Checked Eform for YP-XXXX

Question ID, References	AR.RMP.CRACKREMIATION.R , 195.452(l)(1)(ii) (195.452(f)(3))
Question Text	If the IM risk assessment and integrity assessments found cracks, SCC, or crack like features cracking to be a threat on pipeline segments, have remedial actions been taken to address integrity issues when assessment criteria have been exceeded?
Result	NA
Assets Covered	Unit 515
Result Notes	No such event occurred, or condition existed, in the scope of inspection review. None in WA.

IM.HC: High Consequence Areas

Question ID, References IM.HC.HCALOCATION.R , 195.452(l)(1)(ii) (195.452(f)(1); 195.452(a); 195.452(b)(2); 195.452(d)(3))

Question Text Do records show that locations and boundaries of HCA-affecting segments are correctly identified and maintained up-to-date?

Result Sat

Assets Covered Unit 515

Result Notes Use 10m USGS mapping for "could affect" analysis. Use a severed pipe, full flow event, every 30m for analysis. GIS from PODS-pipeline open data source. Checked direct and could affect segments based on 30m sever criteria for segments between Moses Lake and Spokane. Reviewed the hydrography model and plume maps to see if criteria and output was reasonable based on field inspection. The model was robust and for identifying intersecting HCAs and could affect areas including plume modeling. Use "Tranmap" for field folks (lower level mapping tool from ArcGIS) allowing field personnel to enter new data/report information directly to GIS folks in Houston. Getting ready to issue a new version of Tranmap in 1st quarter of 2016 using cloud based ArcGIS based system.

Question ID, References IM.HC.HCALOCATION.O , 195.452(b)(5) (195.452(a); 195.452(b)(2); 195.453(f)(1))

Question Text Are locations and boundaries of segments that can affect HCAs correctly identified and maintained up-to-date?

Result Sat

Assets Covered Unit 515

Result Notes Reviewed WA HCAs with maps and field visit. Pipeline runs in from Idaho state line to terminal in Spokane. Then runs southwesterly and back north to Fairchild AFB. It transitions to a 6" and runs southwesterly to Moses Lake. The line runs in Spokane County over the Spokane Aquifer, a sole source aquifer. From Idaho state line to west of Spokane is therefore a continuous HCA. Looked at USAs and drinking water sources on HCA maps. OK

IM.PM: Preventive and Mitigative Measures

Question ID, References IM.PM.PMMGENERAL.R , 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(1); 195.452(i)(2))

Question Text Is there documentation of preventive and mitigative actions that have been considered and implemented?

Result Sat

Assets Covered Unit 515

Result Notes Reviewed IMP Section 6 Preventive and Mitigative Measures. Reviewed MPR 6020 Inspections of Spans and Exposed Piping. Also looked at SAP report for work done in WA specific relating to P&M measures. Looked at EFRD analysis for Yellowstone Line. Asked about MOV at E. Low Canal (Moses Lake). This MOV is in process but was low priority due to no HCAs in area (confirmed this). Billings Division decided to do it anyway and budgeted for it. No other specific threats for geohazards in WA (slides, floods, other land movement). Each division has ability to hire resources in their area based on criteria from HQ..

Question ID, References IM.PM.PMMIMPLEMENT.O , 195.452(f)(6) (195.452(i)(1); 195.452(i)(2); 195.452(i)(3); 195.452(i)(4))

Question Text Have preventive and mitigative actions been implemented as described in the records?

Result Sat

Assets Covered Unit 515

Result Notes No geologic specific P&Ms (landslides, floods). Looked at EFRDs at specific locations: EFRD analysis for YPL shows total spill volume in WA is small Y17 and Y04. YPL installed EFRD in Idaho near state line which protects most of Spokane HCA. MP XXX Looked river crossings and spans:

Question ID, References IM.PM.IMLEAKDETEVAL.R , 195.452(l)(1)(ii) (195.452(f)(6); 195.452(i)(3))

Question Text Do records indicate that all required and other relevant leak detection evaluation factors have been adequately evaluated?

Result Sat

Assets Covered Unit 515

Result Notes Yellowstone uses a Real Time Transient Model (RTTM) and a compensated Line Balanced Detection System for leak detection. RTTM is a cpm model and meets and exceeds API 1130 using more sensors, and monitoring points for temp, pressure, batching, flow. RTTM has a dynamic algorithm for startup and shut down conditions to account for variability during this timeframe. Culture allows for controller to shut down pipeline if they believe there is an issue. YPL does this often and does stand-up testing (block in and check for leak). This is done by control room and data is stored there.
Most recent:
YPO2 1 hr standup on 11/27/1 PLM inbalance
YPO2 1 hr standup on 11/02/15 3rd party complaint.
YPO4 1 hr standup on 11/21/15 precautionary to verify line integrity -sump triggered a high level alarm.

Question ID, References IM.PM.PMMEFRD.O , 195.452(i)(4)

Question Text Have identified EFRD projects been implemented as planned?

Result Sat

Assets Covered Unit 515

Result Notes Looked at EFRDs at specific locations: EFRD analysis for YPL shows total spill volume in WA is small Y17 and Y04. YPL installed EFRD in Idaho near state line which protects most of Spokane HCA. Waiting to install power to motorized valve at MP 639, East Low Canal in Grant County. Bureau of Reclamation has not issued permit.

IM.QA: Quality Assurance

Question ID, References IM.QA.IMPERFMETRIC.R , 195.452(l)(1)(ii) (195.452(f)(7); 195.452(k))

Question Text Do records indicate that performance metrics are providing meaningful insight into integrity management program performance?

Result Sat

Assets Covered Unit 515

Result Notes Section 10 IMP. Annual Performance Evaluation. IMP Scheduled Performance Improvements tracks recommendations for improvements to IMP.
Looked at Annual Performance Measures spreadsheet which annually tracks metrics.
Generally, metrics are meaningful. Looking at keeping product in the pipeline and the volume and number of instances occurring is decreasing.

IM.RA: Risk Analysis

Question ID, References IM.RA.RADATA.O , 195.452(f)(3) (195.452(g))

Question Text Are conditions on the pipeline segments accurately reflected in the appropriate risk assessment data and information?

Result Sat

Assets Covered Unit 515

Result Notes Reviewed Section 3.3 of IMP. Data project 2011 to 2015 (ongoing) to manage data from field locations and QA/QC data for model input. P66 does have a process identified in IMP. :Reviewed YP01-03 Assessment Plan History and Planning Document Section 11 Risk Assessment Summary.

MO.LS: Low-Stress Rural Pipelines

Question ID, References MO.LS.CATEGORIZATION.O , 195.12(b) (195.12(b)(1); 195.12(b)(2); 195.12(b)(3); 195.452(a))

Question Text	Are locations and boundaries of segments that can affect a USA correctly identified?
Result	NA
Assets Covered	Unit 515
Result Notes	No such relevant facilities/equipment existed in the scope of inspection review.

RPT.NR: Notices and Reporting

Question ID, References RPT.NR.NOTIFICATIONS.R , 195.452(l)(1)(ii) (195.452(m))

Question Text Has notification been made if Other Technology is used, technology is unavailable, the 5 year reassessment interval cannot be met, remediation schedule cannot be met and pressure cannot be reduced, or a pressure reduction exceeds 365 days?

Result NA

Assets Covered Unit 515

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

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