



December 1, 2020

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First St., N.E.
Washington, D.C. 20426

Re: National Grid LNG LLC, Docket No. CP16-121-000
Fields Point Liquefaction Project
Monthly Status Report for November 2020

Dear Secretary Bose:

On October 17, 2018, the Commission issued the Order Issuing Certificate (“Certificate Order”) granting a certificate of public convenience and necessity to National Grid LNG LLC (“National Grid”) in the above captioned docket for the Fields Point Liquefaction Project (the “Project”). *National Grid LNG LLC*, 165 FERC ¶ 61,031 (2018). National Grid filed its acceptance of the certificate of public convenience and necessity on October 29, 2018 and the Implementation Plan was filed on November 1, 2018. As required by Environmental Condition 8 of the Certificate Order, National Grid is submitting the Monthly Status Report for the November 2020 reporting period.

Pursuant to Section 388.113 of the Commission’s regulations, National Grid requests nonpublic treatment of the CEII documents contained in this submission so marked. The materials marked as “CUI//CEII” concern specific engineering and design information about the proposed liquefaction facilities that is customarily treated by the Commission as critical energy infrastructure information because it could be useful to a person planning an attack on critical infrastructure. The proposed Project once constructed will meet the definition of critical infrastructure in Section 388.113(c)(4) of the Commission’s regulations. National Grid requests that the marked CUI//CEII material maintain that designation for the duration of this proceeding or the life of the facility, whichever is later. A form of protective agreement was filed as Exhibit Z-1 to the certificate application and appears at Accession No. 20160401-5169.

If you have any questions about this submission, please contact me at 781-392-6640.

Respectfully submitted,

/s/ Patrick A. Chaney

Patrick A. Chaney
Lead Project Manager – New England LNG
Capital Delivery, Gas – Complex Project
Management
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cc: Service List

MONTHLY STATUS REPORT FOR NOVEMBER 2020

On October 17, 2018, the Commission issued the Order Issuing Certificate (“Certificate Order”) issuing a certificate of public convenience and necessity to National Grid LNG LLC (“NGLNG”) in Docket No. CP16-121-000 for the Fields Point Liquefaction Project (the “Project”). *National Grid LNG LLC*, 165 FERC ¶ 61,031 (2018). Pursuant to Environmental Condition No. 8 of the Certificate Order, NGLNG provides its monthly status report for the month of November 2020.

Update on Federal Authorizations

As previously reported in the report for December 2018, all required Federal authorizations have been received.

Project Schedule – Construction Status and Work Planned

Work Accomplished in November 2020:

- Training in the Environmental Inspector (“EI”) duties occurred seven (7) times this month
- Air monitoring in accordance with the Rhode Island Department of Environmental Management Short-Term Response Action Plan is ongoing and continued during this month.
- Poured the compressor building access pads
- Finished the installed of the N/S LNG Trench
- Received and placed:
 - 3ea Adsorber Vessels
 - N2 Lube Oil (LO) Cooler
 - Comander Skid
 - Comander Lube Oil (LO) Cooler
 - Air Receiver Vessel.
 - Feed Gas Metering Skid
- Continued with Structural Steel installation on the North/ South Pipe Rack
 - Installed handrail and grating on top level
- Installed Access Platforms and Ladders on all three Adsorber vessels
- Received piping and continued installation within the N/S and E/W pipe racks
- Staged piping inside compressor building
- Installed overhead bridge crane in the prefabricated compressor building
- Finished the roof truss and start installing the cladding around the building

Work Planned for December 2020:

- Complete the foundation for the 99# take away line
- Receive and Set:
 - Crossover Box
 - Feed Gas Booster Compressor Air Cooler
 - Regen Gas Air Cooled Heat Exchanger (ACHE) (Stage in Laydown Yard)
 - LN2 Vaporizer A & B
 - LN2 Final Line Skid
 - Truck Loading Pump Skid (Stage in Laydown Yard)

- Hot Oil Equipment
- Continue with Pipe Installation: N/S Rack, E/W Rack, Compressor Building, E/W N2 sleeper rack
- Finish Structural Steel on N/S Rack, E/W Rack, Compressor Building
- Start installation of Cable Tray along N/S and E/W Pipe Racks
- Start Pulling Cable
- Start preassembly of E/W Truss in the Laydown yard

Problems Encountered and/or Instances of Non-Compliance and Corrective Actions

The problems encountered, contractor nonconformance/ deficiency logs, and each instance of noncompliance observed by the EI during this reporting period are shown below along with the corrective and remedial actions taken and the effectiveness of the implemented actions.

Problems and Noncompliance				
Date	Problem/Noncompliance	Remedial Action Taken	Date of Corrective Action	Effectiveness of Corrective Action
10/29/2020	Crushed stone tracking pad at exit of work zone requires maintenance.	Tracking pad roughened.	11/2/2020	Effective, restored tracking pad.
11/12/2020	Crushed stone tracking pad at exit of work zone requires maintenance.	Tracking pad roughened.	11/13/2020	Effective, restored tracking pad.
11/12/2020	Silt sack in catch basin 3 needs to be cleaned.	Silt sack cleaned.	11/13/2020	Effective, restored drainage of storm water.
11/12/2020	Repair/Replace filtrex soxx south of SMA area.	Filtrex soxx repaired.	11/13/2020	Effective, restored effectiveness of erosion control.
11/16/2020	Crushed stone tracking pad at exit of work zone requires maintenance.	Tracking pad roughened.	11/17/2020	Effective, restored tracking pad.
11/16/2020	Equipment needs to be placed into secondary containment.	Equipment placed into secondary containment.	11/17/2020	Effective, secondary containment in place.
11/23/2020	Unanticipated bypass of erosion controls	Additional erosion controls installed	11/23/2020	Effective, additional erosion controls helped mitigate issue.
11/23/2020	Silt sack in catch basin 3 needs to be cleaned.	Silt sack cleaned.	11/30/2020	Effective, restored drainage of storm water.

11/23/2020	Debris near catch basin 3 needs to be removed.	Debris removed.	11/30/2020	Effective, debris removed near catch basin.
11/23/2020	Filtrex soxx needs to be added in front of drainage inlet 202.	Filtrex soxx added.	11/30/2020	Effective, erosion controls installed.
11/23/2020	Remove compost debris left from filtrex soxx along truck loop.	Compost debris removed.	11/30/2020	Effective, debris removed near.
11/23/2020	Replace filtrex soxx around Regulator Station fence.	Filtrex soxx replaced.	11/30/2020	Effective, restored effectiveness of erosion control.
11/23/2020	Remove crushed stone under filtrex soxx along cove road, near electrical conduit.	Crushed stone removed from under filtrex soxx.	11/30/2020	Effective, restored effectiveness of erosion control.
11/25/2020	Additional filtrex soxx needed on the northern boundary of the site.	Additional filtrex soxx added.	11/30/2020	Effective, restored effectiveness of erosion control.
11/25/2020	Crush stone needs to be added in the area south of the electric conduits.	Crushed added to areas	11/30/2020	Effective, restored effectiveness of erosion control.

Releases				
Date	Material and Quantity Released	Cause	Description	Corrective Action Taken
11/09/2020	Eight ounces of hydraulic oil.	Failure of hose.	Oil dripped to soil and steel plate.	Hose replaced, Soil removed, and steel cleaned.
11/13/2020	Several drops of hydraulic oil.	Weeping fitting.	Oil caused sheen on asphalt paving.	Clay absorbent used to clean asphalt.
11/18/2020	Eight ounces of lube oil from forklift.	Filler cap not secure.	Oil dripped on machine and soil.	Impacted soil removed for disposal, machine cleaned.

Landowner/Resident Complaints

None during this period

Correspondence Received from Other Agencies Concerning Noncompliance

No correspondence was received concerning instances of noncompliance from other federal, state, or local permitting agencies.

Special Inspector's Report

See Attached Register and weekly reports

All site civil work requiring special inspection was, to the best of my knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions.

Yes

No

See discrepancies noted in the attachments

Special Inspector:

/s/ Charles Boisvert

Date:

November 30, 2020

SPECIAL INSPECTOR'S WEEKLY REPORTS

[SUBMITTED AS A SEPARATE FILE]

**CUI//CEII
CRITICAL ENERGY INFRASTRUCTURE INFORMATION
REMOVED PURSUANT TO 18 C.F.R. §388.113**

ATTACHMENT

NON-CONFORMANCE REGISTERS

NON-CONFORMANCE REGISTER - For the registration of NCR Reports



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

	OSSQ	Engineering	Procurement	Construction	Quality	Vendor	Material Management	Project Management	Total Issued
Percentage of Total	27%	14%	13%	25%	11%	6%	0%	3%	100%
Count by Discipline	17	9	8	16	7	4	0	2	63
NCR Ref:	Audit Ref:	Issue Date	NCR Description		Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-001	N/A	5/1/2019	Contract section 3.20.6 states the Contractor shall be responsible to store, protect and maintain all equipment.		The equipment as noted above shall be fully inspected by the original equipment manufacturer to what ever extent necessary and then submit to Owner and recommended repairs that should be made	11/15/2019	6/22/2020	Vendor	Procurement
SR010-RPT-001A r1	N/A	6/11/2019	Incorrect paint applied on vessels at GCAW was not properly addressed by Kiewit with a NCR per Section 18 of the QMS r3		UOP has agreed to blast the non-compliant vessels to achieve a SSPC-SP10 surface profile and repaint following the manufacturer's recommended procedure to apply a #14 system IZ/HS/HS paint system	07/31/19	9-30-2020	Vendor	Procurement
SR010-RPT-002	N/A	6/23/2019	Section 12.0 of the Kiewit QMS requires all documents that are replaced to be stamped as voided or superseded		Kiewit to follow the Documents Control Procedure 102761-B-DMT-PRO-0001 section 6.3.4 Stamping and Document Notations	11/15/19	6/3/2020	Engineering	Engineering
SR010-RPT-003	N/A	6/23/2019	National Grid requested Kiewit to provide (2) RT film packages for audit purposes related to the GCAW Adsorber PO. These documents were not provided after several requests spanning a (6) week period		National Grid to perform an audit on all RT film at the Vendor's facility	07/31/19	09/27/19	Procurement	Vendor
SR010-RPT-004	N/A	7/1/2019	Kiewit did not follow their QMS r3 or contract requirements when changing the location of the load cells for the Micro Pile testing		Kiewit to provide refresher RFI training to field personnel on the RFI process to ensure RFI's are submitted in a timely manner.	09/09/19	09/09/19	Contractor	Construction
SR010-RPT-005	N/A	7/3/2019	Piping specifications showed the incorrect NFPA-59A specification. The piping specification showed the 2019 version versus the 2001 version.		Kiewit issued a code revision RFI to NG referencing all piping specifications were revised to remove the NFPA 59A 2019 reference	08/27/19	09/27/19	Engineering	Engineering
SR010-RPT-006	N/A	7/30/2019	Kiewit Project Specific Procurement Plan 102761-B-QLT-PLN-0002 requires any discrepancies or damaged materials will be tagged or labeled accordingly and isolated in the warehouse, laydown area or receiving QA/QC holding areas pending resolution. Underground piping was received at project site without documentation and the piping was not properly stored or marked as quarantined.		Place the referenced piping material into the specified quarantine area and properly mark as do-not-use	10/21/19	10/21/19	Quality	Quality
SR010-RPT-007	N/A	8/1/2019	Kiewit did not notify National Grid for the off-site testing of the Feed Gas Booster Compressor in accordance with Section 2.23 of the Contract.		Procurement and OSSQ shall review the requirements for notification of off-site testing to ensure National Grid is properly notified in the required time frame.	11/15/19	05/28/20	Procurement	Quality
SR010-RPT-008	N/A	8/2/2019	Incorrect hydro test pressure and hold time for firewater line. Test was not conducted in accordance with NFPA 24.		The firewater spools in question will be retested in the overall firewater system test to be performed on site at a later date. No further action required	09/27/19	09/27/19	Engineering	Engineering
SR010-RPT-009	N/A	8/5/2019	A Master Inspection Test Plan (MITP) was provided to allow National Grid to determine which vendor inspections/meetings that National Grid wanted written notification to attend. National Grid populated this document with the required Hold/Witness points which included a hold point for "Final Inspection Prior to Shipment (first shipment)" (see attached). This inspection was noted as a hold point by the Client and the Client was not notified of the inspection step.		Revisit the requirements for Client notification of vendor testing with all personnel related to this requirement, document the training and provide National Grid with a responsibility matrix to ensure proper notification is achieved on future inspections.	11/15/19	05/29/20	OSSQ	OSSQ

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-010	N/A	8/8/2019	Kiewit is required to provide the off-site vendors with the requirements of the contract between National Grid LNG LLC and Kiewit Power Constructors Co. Section 3.10 Welding Requirements was not conveyed to ABB for off-site construction.	Vendor ABB submitted weld procedures as required	08/08/19	09/27/19	Procurement	Procurement
SR010-RPT-011	N/A	8/8/2019	Section 3.21.23 of the Contract states "the Contractor shall provide a fully functional, integrated, electronic data and document management system". TeamBinder which is the existing Document Control Management system has not proved to be a functional system. This system has shown to be unable to consistently provide access by the Owner to the technical documents for review which are related to this project both for pre-suspension and post suspensions documents. Large data dumps are transmitted without regard to previous review and comments by Owner. Documents have been removed from the obligatory (10) day period prior to period completion. Comments made by the Owner during the document review have not been incorporated into the subsequent document release. The Owner has been subjected to Beta testing of system changes which has proven to be ineffective and confusing to the overall document control procedure.	Provide the Owner with a functional system that is capable and will permanently correct the discrepancies as noted in section "A" above.	01/15/20	01/15/20	Engineering	Engineering
SR010-RPT-012	N/A	8/14/2019	Section 7.2 Procurement Strategy of the prime Contract requires a Supplier shipment to be inspected by the Contractor to ensure compliance with Project Specifications. The first shipment for the UG piping did not receive a final release shipment	See Addendum "A" attached to the NCR report	05/21/20	05/28/20	OSSQ	Procurement
SR010-RPT-013 R2	N/A	8/20/2019	Prime Contract Attachment 7 requires APCI to comply with NFPA 59A. A data review of the quality documents noted the actual NDE performed was not in compliance with the NFPA 59A requirements. A review of documentation for the Cross over Bridge piping did not reflect this requirement. Revision 1 added the contract requirements noted in Section 3.10 - SOW	Kiewit will direct APCI to perform the NDE on the crossover box as defined by KIEWIT RFI-000119 resolution dated 2-20-20	04/13/20	Open	Vendor	Vendor
SR010-RPT-014r1	N/A	8/20/2019	Prime Contract Section 3.10 Scope of Work requires all procedures for welding of piping, vessels and equipment performed off-site shall be submitted to the Owner for review and approval prior to construction.	Kiewit will comply with the requirements of the Prime Contract	09/27/19	11/15/19	Vendor	Vendor
SR010-RPT-015 R2	N/A	8/20/2019	Prime Contract Attachment 7 requires APCI to comply with NFPA 59A. A data review of the quality documents noted the actual NDE performed was not in compliance with the NFPA 59A requirements. A review of documentation for the Cold Box piping did not reflect this requirement. Revision 1 added the contract requirements noted in Section 3.10 - SOW	Evaluate the correct NDE requirements as required by NFPA-59A-2001 and contract. Perform the necessary additional NDE as required to meet compliance for the Cold Box fabrication.	04/13/20	6/22/2020	Vendor	Vendor
SR010-RPT-016	N/A	8/27/2019	UOP/GCAW equipment data books were reviewed by National Grid and found to be non-compliant with contract requirements	Kiewit shall review the data books for the equipment as mentioned above and perform the necessary tasks so the data books comply with contractual requirements.	05/27/20	Open	Vendor	Procurement
SR010-RPT-017	N/A	8/27/2019	UOP/GCAW equipment data books were reviewed by National Grid and found to be non-compliant with contract requirements	Kiewit shall review the data books for the equipment as mentioned above and perform the necessary tasks so the data books comply with contractual requirements.	05/28/20	10-6-2020	Vendor	Procurement
SR010-RPT-018	N/A	8/28/2019	Kiewit Site Specific Procurement Plan requires all contracts with risk level of 4 or 5 to conduct kick-off meetings upon execution of the contract.	Kickoff meetings with all suppliers signed up pre-suspension rated as 4 or 5 on the Master ITP have had kickoff meetings pre-suspension and during project re-initiation. An additional Prefab Quality meeting will be held as indicated in MITP	09/27/19	11/15/19	Procurement	Procurement
SR010-RPT-019	N/A	9/23/2019	Kiewit Site Specific Procurement Plan requires development of a Master ITP Plan including Witness and Hold Points, FAT Test, quality audits and any additional recommended in-process shop inspection. These activities shall include dates.	Kiewit is to provide an updated and completed Master ITP that complies with the requirement as noted in the Project Specific Procurement Plan 102761-B-QLT-PLN-002	11/15/19	06/04/20	Procurement	OSSQ
SR010-RPT-020	N/A	10/3/2019	A ground Water monitoring well (mw) was identified in Kiewit's work area for Field Point Liquefaction Project in an area that required placement of several feet of fill. National Grid SIR provided guidance to Kiewit on closure of the mw in accordance with RI DEM requirements, prior to placement of the fill material. Kiewit did not follow proper closure procedures and did not notify On-site environmental for required oversight of mw closure procedure.	Kiewit is to notify National Grid SIR with proposal to locate and properly close the ground water monitoring well in accordance with RIDEM requirements. The mw closure shall be witnessed and approved by the National Grid SIR representatives.	11/15/19	11/15/19	Contractor	Construction

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-021	Civil 102519-002	11/1/2019	During the course of the Civil Audit #102519-002 performed at site; Checklist Item 4.0 (c) Has proof rolling been approved by the Geotechnical Engineer in coordination with the Field Representative? The audit team stated that the Geotechnical Engineer was not notified in accordance with Section 4.9 of the Earthwork Specification – 102761-B-CIV-SPC-0001. The audit team was unable to provide documentation supporting the requirement was met.	Proof rolling as described and shown meets the project requirements - M. Oakland Kiewit will b e submits a Corrective Action with Preventive actions for procedural adherence - COB 4-3-2020	04/03/20	6/23/2020	Contractor	Construction
SR010-RPT-022	Civil 102519-002	11/1/2019	During the course of the Civil Audit #102519-002 performed at site; Checklist Item 3.0 (g) Does the Geogrid meet the requirements as required by Earthwork Specification section 3.12. Documentation showing approval for the Geogrid materials was not provided prior to construction and were subsequently approved by the Geotechnical Engineer on 10/24/2019 which is after the placement of the materials. The audit team was unable to provide documentation supporting approval prior to the start of construction.	Received supporting documentation	01/07/20	01/07/20	Contractor	Construction
SR010-RPT-023		11/4/2019	On October 11, 2019 Kiewit and National Grid attended a shop inspection to witness hydro testing of the L9020-A/B N2 storage vessels located at Chart Ind. New Prague, MN. Upon arriving, the (2) vessels of interest were set up to conduct a cold-stretch test in accordance with ASME Section VIII Appendix 44. The subsequent Off-Site Vendor Surveillance report 191011 per OSSQ stated that Chart conducted a Cold Stretch Test in Lieu of a hydro and further referenced ASME Section VIII Div. 1 Appendix 44 as reference. A review of the 2017 version of Mandatory Appendix 44 states in 44-6.1 (f) ...the pressure test required by UG-99 or UG-100 shall be applied after all welding on the pressure retaining parts... Kiewit has not provided National Grid written proof that a hydro test was performed and documented on the vessels in question.	Kiewit to provide National Grid proof that a hydro test was conducted as required by ASME VIII Div.1 or have Chart perform a hydro as required. National Grid will be notified as required to attend the testing of the vessels in question.	11/15/19	7/8/2020	Vendor	OSSQ
SR010-RPT-024		12/21/2019	Section 3.10 of the Prime Contract NUMBER 4400005216 requires Kiewit to submit all welding procedures for piping, vessels and equipment performed off-site to Owner (National Grid) prior to start of construction. Kiewit is required to review the welding procedures for project compliance prior to submittal for National Grid review. The welding procedures for IFS's subcontractor, Transend were not submitted to Owner for approval after review by Kiewit.	Attachment 1 includes the approved WPS	05/20/20	5-21-2020	Contractor	OSSQ
SR010-RPT-025		1/16/2020	The Contract states in, Section 2.23 Inspection and Testing, that Kiewit is to provide the owner in writing no less than (10) Business days, written notice of scheduled dates for the conduct of, and opportunity to witness, the off-site testing. Kiewit allowed IFS/Transend to conduct a hydrotest of the Feed Gas Filter without providing National Grid proper notification of the test	Kiewit to provide documentation for the notification of Witness Points no less than (10) business days to provide National Grid the opportunity to witness off-site testing, For this specific case Kiewit provided an opportunity to National Grid for review of the hydrotest documentation of the Coalescing Filter Tag# D-0200 on 2/13/2020. Report is attached. The Findings documented in the report have been closed and a copy of the Findings Log is included.	05/20/20	5/26/2020	OSSQ	OSSQ
SR010-RPT-026		2/5/2020	Regen Gas Heater LDE-1021A tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with minor pit like indications showing a measured wall loss. In addition during the inspection several tubes were found to have been bent which caused contact between adjacent tubes causing a non relevant indication with one tube was only partially scanned due to the bent condition.	Rebuild and replace tube bundle performing all required testing as per the contractual requirements.	05/26/20	6/8/2020	Vendor	OSSQ
SR010-RPT-027		2/5/2020	Regen Gas Heater LDE-1021B tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with indications. Open tube was bent within the first foot and could not be inspected and one tube had non-relevant indication due to tube to tube contact. See attached report	Rebuild and replace tube bundle performing all required testing as per the contractual requirements.	05/26/20	6/8/2020	Vendor	OSSQ

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-028		2/27/2020	Kiewit procedure 102761-B-QLT-PRO-0011 <i>Corrective & Preventative Actions</i> states the purpose of said procedure is to establish a continuous improvement process for generating documentation and implementing Corrective and Preventive Actions in accordance with Kiewit's Quality Management System. Section 19.3 of the Kiewit QMS rev 3 states that Corrective or Preventative Action requests can be initiated by the clients or by our employees. National Grid has determined that the number and causes of Non-Compliance Reports (NCR) generated for this project has warranted Corrective Action Reports (CAR's) and has requested on several occasions such reports be generated (see attachment). To date Kiewit has not generated CAR's.	Kiewit will preform CAR's as trends are found . See attached 3 CAR's Kiewit and National Grid had a call between the quality groups and agreed on a path forward.	05/27/20	7/8/2020	Quality	Quality
SR010-RPT-029		2/27/2020	Kiewit document 102761-B-QLT-PRO-0009 Project Quality Audit procedure states this procedure is to verify the overall effectiveness of the quality program along with proper implementation. It will also ensure work is conducted in accordance with customer's quality expectations including contract, code, jurisdiction requirements and Cherne Project Quality Management system. This procedure applies to all Cherne's project locations as well as shop and manufacturing facilities. Section 20.0 of the Quality Management System revision 3 defines the requirements of both internal and external audits which are required to be performed. As of this date, National Grid has not received any audit notifications or audit reports as required Kiewit QMS revision 3. National Grid has conducted several audits on Kiewit as of this date.	Kiewit will updated the Quality Audit Schedule. Kiewit and National Grid quality groups meet via a conference call and agreed the attached audits performed by Kiewit meet the audit requirements. Kiewit will invite National Grid to attend future audits.	04/10/20	6/4/2020	Quality	Quality
SR010-RPT-030		2/27/20	The Contract, Section 3.10 Welding Requirements, requires all procedures for welding of piping, vessels and equipment performed off-site to be submitted to the Owner for review and approval prior to construction. This requirement is also noted in the Contract between Kiewit and Patterson Horth in Sub-contract SC-7200002536 Compressor Building. Nucor, sub-vendor to Patterson Horth has refused to submit the required welding procedures claiming such procedures as company proprietary information.	Require Patterson Horth/Nucor to formally submit welding procedures and quality deliverables through TeamBinder for National Grid review and approval prior to commencing any welding work.	04/22/20	5/29/2020	Procurement	OSSQ
SR010-RPT-031		2/27/2020	<i>Fields Point Project Management of Change</i> Implementation process, dated March 15 th , 2019 define the requirements for Major Changes in Section 3.3 and the requirements for Minor Changes in Section 3.4. Each respective section further provides the steps and processes on how changes are implemented utilizing forms, team reviews, studies and an additional requirement that the MOC is only to be implemented once approval had been received. Kiewit has modified and submitted in large quantity P&ID drawings and classified these drawings as IFC. These drawings depict processes that have been changed, which is in violation of the MOC Implementation Plan. The required MOC documentation and prior approval of the MOC is required as stated in the Implementation Plan.	All Kiewit Project Engineering Staff must attend training on the project MOC procedures which will be conducted by Ryan Terry of PSRG Kiewit agrees to the above disposition 4/1/2020	04/20/20	5/29/2020	Engineering	Engineering
SR010-RPT-032		2/27/2020	Kiewit placed backfill on Duct Bank area 7 using (12") lifts. Earthwork Specification 102761-B-CIV-SPC-0001 REV 01 states in Section 4.15 Compaction Requirements that for Trench's the Backfill shall be placed in 6" Lifts.	Kiewit will remove the non-compliant backfill and replace in 6" lifts for the area of Duct Bank 7 and follow the 102761-B-CIV-0001 Earthwork Specification going forward.	04/02/20	7/8/2020	Contractor	Construction
SR010-RPT-033		3/3/2020	Kiewit Plain and Reinforced Concrete procedure 102761-B-STR-SPC-0024 rev 1 Section 4.6.2.3 states Form removal shall be in accordance with ACI 301/ACI 301M and the following, which further states certain forms could be removed in (48) hours. ACI 301 Section 2.1.2.1.c requires a submittal of a method for determining concrete strength for formwork removal is in accordance with 2.3.4.2 when a method other than field-cured cylinders is proposed. ACI 347 section 3.7.3.1 states the engineer/architect should specify a minimum strength of the concrete to be attained before removal of forms or shores. Section 3.7.2.3 states because the minimum stripping time is a function of concrete strength, the preferred method of determining stripping time is using tests of job-cured cylinders or concrete in place. An alternative method has not been submitted for approval and forms have been removed before a compressive strength test has been completed and accepted.	Kiewit to submit a plan to National Grid for review and approval that does not require a compressive strength values as a determine factor in form removal or submit a compressive strength value to be met prior to form removal.	6/24/2020	7/8/2020	Engineering	Construction
SR010-RPT-034		3/2/2020	Kiewit QMS rev 3 section 18.3 States "When a nonconforming situation or procedure is detected, the issues is documented and actions are taken to correct or resolve the issue in a timely manner. National Grid has (4) NCR's generated during 2019 without agreed dispositions; (14) NCR's generated during 2019 that are open without closure.	Kiewit will provide National Grid with an updated status for all open NCR's along with a schedule detailing projected dates for open NCR dispositions and closures. Kiewit will make NCR update party of the weekly client meeting with National Grid in order to keep the team focused on closing out the currently issued NCR's as well as any future NCR's issued on the project.	05/26/20	5/28/2020	Quality	Quality

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-035		3/3/2020	National Grid performed an audit on legacy film for the 3886 LD-1000/C Adsorber at the GCAW facility and rejected the Number 4 weld on Nozzle "B" due to chemical stains rendering the film non-compliant with code requirements.	Open pending additional information	05/26/20	7/17/2020	OSSQ	OSSQ
SR010-RPT-036		3/3/2020	Section 2.6 Employees and Key Personnel of the Prime Contract requires Key Personnel to be devoted to the Liquefaction Project for all of the time which is necessary to perform the Work and Contractor shall not remove or replace any of the Key Personnel without the prior written approval of Owner, which approval shall not be unreasonably withheld. Kiewit has on multiple occasions removed and replaced Key Personnel on the Project with new personnel without proper notification and/or approval.	Provide owner with current Organizational Chart that provides names to the positions as noted in Appendix "I", and submit resumes on all Key Personnel that have changed within the last (90) days.	05/29/20	5/29/2020	Project Management	Project Management
SR010-RPT-037		3/10/2020	The Engineering, Procurement and Construction Contract Number 4400005216 provides requirements for the Contractor to submit documents for Client review and approval. These requirements are addressed in the Scope of Work Section 2.25 and further in Appendix "U". The attached Kiewit TRN # 02088 shows (10) Piping Material Specifications that were revised without providing documents to client for review and/or approval. The attached review history shows an example where Piping Specification 102761-B-MEC-SPC-0083 was issued a Studio Session for revision "A & B" but sessions for revisions "00, 01, 02, & 03" were not issued.	Summarizing the actions from the Document Control Breakout Meeting on March 25, 2020, National Grid will expand the table in Section 4.4 of the Scope of Work and List of Deliverables to expand upon the deliverables National Grid would like to formally review and approve and Kiewit will determine the appropriate methodology to facilitate those reviews. Kiewit will update the Document Control procedure with the mutually agreed table and resolve any outstanding National Grid comments. In the interim, the project will continue the current document review communication process of National Grid/CHIV submitting comments, and Kiewit responding to all comments, even if the comment is not incorporate, and regardless of document type, content of comment, or timing (i.e. when the document was issued).	04/10/20	5/29/2020	Engineering	Engineering
SR010-RPT-038		3/24/2020	Section 2.25 Design and Engineering Work paragraph (f) of the contract states <u>As Built Drawings and Specifications During construction, Contractor shall keep a relined, marked, up-to-date set of As-Built Drawings and specifications on the Work Site as required under Appendix "U"</u> . Kiewit has not maintained a "set" of as-built drawings as required by the statement above for piling and other civil activities..	Kiewit will produce a set of "E" size drawings for all past and future construction activities where as-built conditions have been generated. These drawings will be made available to all National Grid personnel anytime construction activities are taking place on site. The drawings set will be updated immediately upon changes or issuance of the IFC construction drawings that effect or change the original approved design or Scope of Work.	04/03/20	6/3/2020	Engineering	Engineering
SR010-RPT-039		3/24/2020	Section 3.3 Engineering Design listed under the Scope of Work states : " <i>Development of up-to-date equipment lists, Drawings, specification0s, and requisition schedules. Frequency to be agreed with Owner as appropriate</i> ". National Grid has made repeated requests for Kiewit to provide an updated Drawing Index on a weekly basis and this has not happened.	Kiewit shall produce an updated drawing index in an acceptable format for all IFC/IFD/IFI drawings and submit such list to National Grid Engineering by COB on each Friday during design and construction of the LNG Facility..	4/6/2020	6/17/2020	Engineering	Engineering
SR010-RPT-040		3/24/2020	The contract requires Kiewit to develop within (45) days after Full Notice to Proceed (FNTP) a Project Procedure Manual and as the prime purpose of the PPM is to ensure consistent project processes and procedures. National Grid has requested that Kiewit develop a Site Specific Document Control procedure for	Kiewit shall immediately produce and implement the Client's comments in the referenced Document Control Procedure and submit as IFC to the project.	6/2/2020	6/2/2020	Project Management	Project Management
SR010-RPT-041		3/24/2020	Kiewit performed a closure of the Dry Well next to the Old Propane House without properly notifying National Grid Construction, Environmental and GZA. Procedural steps were provided to Kiewit Construction Manager by National Grid Construction Manager on Friday March 20th, 2020 which outlined the steps and notification requirements for the proposed activity. Kiewit performed the work on Monday March 23rd without notifying the proper personnel as provided by National Grid.	Kiewit to perform a root cause analysis that shall accompany this NCR. The root cause shall be submitted to National Grid for review and approval and a subsequent discussion shall follow. Additionally a Corrective Action shall be generated as this is a recurring event where steps and notification requirements are not followed.	04/01/20	7/8/2020	Project Management	Construction

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SR010-RPT-042		4/16/2020	Kiewit OSSQ performed a Final Inspection and Document Review on 4-8-2020 at the Highland Tank facility (Report #200408 Highland Tank). There were multiple findings during this visit which included (1) U-1A form requires correction (2) Multiple X-ray reports were found to be non-compliant; missing IQIs, missing "F" markers, missing acceptance noted on report (3) PMI Testing showed low values on nickel composition (4) Missing NDE testing prior to hydro testing (5) Welder Performance Qualification records were found to have various errors. (5) Welding Procedures were found to have typographical errors on the PQR documents.	Kiewit to perform a root cause analysis that shall accompany this NCR. The root cause shall be submitted to National Grid for review and approval and a subsequent discussion shall follow. Additionally a Corrective Action shall be generated as this is a recurring event where documentation review uncovers multiple findings subsequent to a recent OSSQ Inspection. All items as noted in Section "A" are required to be corrected as required to a compliant status with project and code requirements.	5/21/20	7/22/2020	OSSQ	OSSQ
SR010-RPT-043		4/24/2020	The Contract, Number 4400005216 between National Grid LLC and Kiewit Power Constructors Co. states in section 3.20.6 of the <i>Scope of Work and List of Deliverables</i> the Contractor shall be responsible for providing warehouse and storage facilities both on or off site. Also stated in this section " <i>It shall be the responsibility of the Contractor to store, protect and maintain all equipment and materials in accordance with SOW, the Supplier's preservation requirements and good practice.</i> " The final inspection and FAT testing were conducted on 3-5-2020 and National Grid's request for Preservation and Maintenance and inspection records have not been providing which indicates the P&M for the PDC and installed electrical equipment has not been performed in accordance with the manufacturer's requirements.	The equipment as noted above shall be inspected by either National Grid or a 3rd party inspector, suitable to National Grid to what ever extent necessary and then any repairs, if applicable, shall be corrected to National Grid's satisfaction. Kiewit shall immediately provide a P&M procedure which will include the building and installed electrical gear in accordance with the manufacturer's requirements. The P&M procedure shall provide details of how the preservation requirements will be maintained during shipment and during storage on site.	5/21/2020	5/13/2020	Engineering	Engineering
SR010-RPT-044		5/5/2020	The Prime Contract requires Kiewit to provide Client with a copy of any Supply Contract within (10) days after request by Owner. National Grid has requested Kiewit to provide a SDS (Supplier Document Schedule) showing quality deliverables and schedule for the Compressor Building contract. As of this writing, the SDS has not been provided.	Kiewit shall provide National Grid Supplier Document Schedule as requested.	5/21/2020	6/1/2020	Procurement	Procurement
SR010-RPT-045		5/5/2020	The Prime Contract, Vendor Contract and Vendor and Subcontractor Document Control and Expediting Procedure provide requirements for Vendors and Subcontractors to provide documentation deliverables per the Seller's Deliverable Schedule. The submittal process shall use the Vendor Data Module of InEight Document (TeamBinder). Additional requirements also state the type of quality deliverables required for submittal. The QA/QC program requirements are passed on to the second-tier suppliers and that the subcontractor enforces them. Nucor, a subcontractor to Patterson Horth has refused to submit the quality deliverables as so required through InEight for Owner review and approval.	Kiewit shall require NUCOR, as a subcontractor to Patterson Horth, to submit all required quality deliverables through the InEight/TeamBinder system for review and approval by Client.	5/20/20	8-13-2020	Procurement	OSSQ
SR010-RPT-046		6/2/2020	Section 3.10 of the Contract requires all welding procedures to be submitted to Owner for review and approval prior to construction. The Base plates for the PDC column drawing 102761-00-0000-sTR-SF-5806 detail 1 were modified to use a welded embed rod versus the anchor bolt as called out. The fabrication was performed off-site and subsequently installed without Owner approval of welding procedure or welder qualification.	Kiewit shall require the outside fabricator to provide a WPS, PQR and Welder Certifications for Client review. Kiewit shall also provide CMTR's for the base plate and embed rod used in this application. This NCR will prevent the setting of any equipment on the referenced foundation until the NCR is closed.	6/2/2020	Open	Procurement	Quality
SR010-RPT-047		6/2/2020	Drawing 102761-B-00-0000-STR-SF-5175 detail 8 shows using Mirafi 180N or equal geotextile fabric. The 3rd lift construction used Mirafi 140N instead of the required 180N. This substitution was not approved by Engineering prior to the placement and is considered non-compliant with the specification.	National Grid is requiring a Corrective Action Report be initiated for this specific occurrence and the CAR shall cover the procurement, receiving and installation of the non-compliant product. The CAR must follow the requirements of 102761-B-QLT-PRO-0011 Corrective and Preventive Action procedure.	6/2/2020	8/18/2020	Contractor	Quality
SR010-RPT-048		6/10/2020	Kiewit procured base plates for the PDC building columns from an outside vendor. The base plates required welding (4) 1" diameter embed rods to the plate in accordance with Kiewit RFI-000161 replacing the previously designed anchor bolts. The welding of the embed rods was performed and installed. A review of the Weld Procedure and Welder Qualification Records provided from the outside vendor showed the welder was qualified for maximum 3/4" thickness in accordance with AWS D1.1 but the overall rod welded was 1" diameter for which was outside the welder's qualified limitations. Kiewit failed to properly review and vet the	The base plates as installed are to be removed and properly welded with qualified welders and replaced by a method suitable to National Grid. The repeated failure by Kiewit to follow the contract and/or procedures will require a Corrective Action Report to be generated on this specific instance which will be submitted to NG for review and approval.	7/15/2020	10/15/2020	Contractor	Construction
SR010-RPT-049		6/11/2020	Kiewit's Thermal Control plan dated December 5, 2019 provides specifications and tolerances for mass concrete pour temperatures delta between core and near surface. Section "F" of this specification limits the temperature delta between the core and near concrete surface to a maximum of 35° F during the first 4 days. The pour was placed on 5/28/2020 and the attached data log shows for a period of approximately (8) hours between 5/30/2020 @ 5:08 AM until 5/30/2020 @ 12:08 PM the monitored temperature differential was in excess of 35° F (see attached log).	Further testing and observation found the concrete did not exceed the 185 degrees (F) per the Thermal Control Plan Table 6.2.2.2	7/5/2020	7/17/2020	Contractor	Construction

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SR010-RPT-050		6/15/2020	Hudson Products, subcontractor to Kiewit, submitted their ASME Welding Process Usage Log for National Grid review and the review showed the continuity lacked full traceability to show the welders welded with their qualified process(es) during the previous welding periods as required by ASME Section IX. Hudson is contracted to provide Air Cooled Heat Exchangers and structural steel supports for this product. National Grid will not accept any welders used for the ACHE and/or structural steel fabrication that do not have full traceability of qualifications and welding continuity.	Continuity package to be reviewed prior to hydrotest	7/15/2020	Open	Vendor	OSSQ
SR010-RPT-051		6/16/2020	Kiewit provided National Grid with a data package to document current work as performed on the compressor building structural steel. The review identified (5) Welder Performance Qualification Records(WPQR) that were not signed by a qualified person at the time of welder testing rendering these records as non-compliant and the welders non-certified. AWS D1.1 Structural Welding Code - Steel requires qualified personnel to witness visual acceptance of the welds and visual acceptance of the destructive bend test. The welder I.D.'s are as follows: #7, #14, #15, #25, and #91.	All welds that were deposited by the above referenced welders are rejected and must be either cut-out and re-welded or replaced with completely new fabricated members. Other alternative corrective methods may be submitted to Client for their approval.	8/14/2020	8/14/2020	Vendor	OSSQ

Non-Conformance Log



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0001		Concrete Driven Pile DP-13 hit an obstruction and shifted during operation and causing pile to be approximately 2.4744" out of tolerance per specification at 6"	Kiewit			5/28/2019		6/26/2019	6/26/2019			6/26/2019	CLOSED	NO	
0002		Damage to upper concrete driven pile DP-70 during pile driving activities, damage is just above the Emeca splice plate, resulting in exposed rebar and a 2' crack protruding up the south east side of the column, extending from the break.	Kiewit			6/6/2019	6/25/2019	8/13/2019	8/13/2019			8/13/2019	CLOSED	NO	
0003		During installation of DP 113 the toe of the pile started to walk to the west. Crew attempted to correct the out of plumbness during driving but could not correct enough to get back in tolerance. As the pile sits now it is 1 3/8" in 4' equating to 2.86% or .86% out of tolerance.	Kiewit			6/11/2019	6/25/2019	6/26/2019	6/26/2019			6/26/2019	CLOSED	NO	
0004		Regeneration Gas Separator LDD-1011 was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1200 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interim.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ		5/16/2019	6/13/2019	6/14/2019	6/14/2019	6/15/2020	7/8/2020	7/8/2020	CLOSED	NO	
0005		Absorber L-1000A was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1200 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ	UOP	5/16/2019	6/13/2019	6/14/2019	6/14/2019	6/15/2020	9/28/2020	9/30/2020	CLOSED	NO	
0006		Absorber L-1000B was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1200 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ	UOP	5/16/2019	6/13/2019	6/14/2019	6/14/2019	6/15/2020	9/28/2020	9/30/2020	CLOSED	NO	
0007		absorber L-1000C was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1200 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ	UOP	5/16/2019	6/13/2019	6/14/2019	6/14/2019	5/1/2020	9/28/2020	9/30/2020	CLOSED	NO	
0008		Particle Filter LDS - 1010 A, was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1000 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ	UOP	5/22/2019	1/29/2020	1/29/2020	1/29/2020	5/15/2020	7/8/2020	7/8/2020	CLOSED	NO	
0009		Particle Filter LDS - 1010 B, was found to have an incorrect coating applied in accordance w/ 102761-B-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flex, Hi-Temp 1000 degree Fahrenheit system. The coatings found to be applied are Sherwin-Williams Macropoxy 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Kiewit	OSSQ	UOP	5/22/2019	1/29/2020	1/29/2020	1/29/2020	5/15/2020	7/8/2020	7/8/2020	CLOSED	NO	

Non-Conformance Log



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0010		Failure to meet pressure testing requirements as outlined in specification NFPA 59A 2001 Edition	Kiewit			6/18/2019	5/21/2020	6/18/2019	6/18/2019	6/5/2020	5/29/2020	5/29/2020	CLOSED	NO	
0011		Companders K-The equipment maintenance and preservation for the Companders 1CS-V200 as required by Air Products and Chemicals, INC. was not followed and properly documented. Request have been previously made to produce verifiable documentation that would support proper maintenance and preservation activities during the period of January of 2018 through the date of this NCR. Specific requirements in accordance with FPLP-APCI Compander Storage Procedure and CryoMachinery Preservation Checklist Installation through start-up CMD-0177d Ref. CMD-0177a & CMD-0177b have not been followed and subsequently documented.210 & K-220	Kiewit	OSSQ	APCI	6/19/2019		2/7/2020	2/12/2020	5/31/2020	6/24/2020	7/1/2020	CLOSED	NO	
0012		The equipment maintenance and preservation for the K-131 Nitrogen Recycle Compressors as required by Air Products and Chemicals INC. was not followed and properly documented. Request have been previously made to produce verifiable documentation that would support proper maintenance and preservation activities during the period of January of 2018 through the date of this NCR.	Kiewit	OSSQ	APCI	6/19/2019		2/7/2020	2/12/2020		6/24/2020	6/24/2020	CLOSED	NO	
0013		The equipment maintenance and preservation for Air Cooled Heat Exchangers E-2131, E-2141, E-2151, & E-2135 required by Air Products and Chemicals INC. was not followed and properly documented. Request have been previously made to produce verifiable documentation that would support proper maintenance and preservation activities during the period of January of 2018 through the date of this NCR	Kiewit	OSSQ	APCI	6/19/2019		2/7/2020	2/12/2020	5/15/2020	6/24/2020	7/1/2020	CLOSED	NO	
0014		As Kiewit was cutting off piles to elevation the first, two or three feet, voids in top of concrete piles were discovered on two separate piles with numbers mentioned in the Reference Documentation above.	Kiewit			8/27/2019	9/10/2019	9/10/2019	9/10/2019			9/11/2019	CLOSED	NO	
0015		Pile initially inspected and there were no cracks. We started driving the top piece and noticed the crack. The crack went down about 20' and the corner of the pile chipped off 20' down. Once pile chipped we continued driving to grade.	Kiewit			6/27/2019	7/5/2019	7/8/2019	7/8/2019			7/8/2019	CLOSED	NO	
0016		14" Pre-Cast Pile were cut off short by 2 inches to 3 inches out of Tolerance. Specification Cut-off tolerance shall be within 1 inch of the required elevation shown in the contract documents.	Kiewit			7/10/2019		7/15/2019	7/15/2019			9/11/2019	CLOSED	NO	
0017		Air Content was observed as being 3.3% per the required 4.5%-7.5%. Resulting in failure per the mix design.	Kiewit	Engineering		9/30/2019	3/19/2020	3/20/2020	7/8/2020		6/22/2020	7/8/2020	CLOSED	NO	
0018		Air Content was observed as being 4.0% per the required 4.5%-7.5%. Resulting in failure per the mix design.	Kiewit	Engineering		9/30/2019	3/19/2020	3/20/2020	7/29/2020		6/22/2020	7/29/2020	CLOSED	NO	
0019		On September 17th 2019 a quality document and NDE review was performed at GCAW shop in Humble, TX. Attendees included, Robert Poche, Alex Devine, Robert Johnson, Gene Johnson, and Al Noriega. It was discovered during this review that the volumetric examination records and radiographic film were found to be non-compliant to the mandatory essential variables as per ASME Sec. VIII and ASME Sec. V requirements including but not limited to, film quality, film density, IQI placement and identification, etc. Reader sheets / Reports were found to not meet minimum requirements as per ASME Sec. V	Kiewit	OSSQ	UOP	9/30/2019	7/22/2020	7/22/2020	7/30/2020		7/29/2020	9/9/2020	CLOSED	NO	
0020		Fill materials were brought on-site from the PJ Keating quarry, it was discovered after dumping the load the 1 1/2" dense grade material was unapproved and would not meet the standards for FPLP.	Kiewit			10/9/2019	1/13/2020	11/23/2019	1/13/2020			1/13/2020	CLOSED	NO	
0021		Craft proceeded cutting 16" concrete driven piles 5871-D-DP-25 & 5871-D-DP-26 without confirming pile cutoff elevations accordingly, resulting in two piles approximately 18" below actual elevation.	Kiewit			10/15/2019	1/8/2020	11/23/2019	1/10/2020			1/10/2020	CLOSED	NO	

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0022		Upon cutting off of the 16" driven concrete piles it was found that the tension connector tubes were not in the correct location within the pile per Dwg. 102761-B-00-0000-STR-SF-6021 Rev.3 Gen. Notes 8. has a tolerance of +1/8"	Kiewit			10/16/2019	1/8/2020	1/8/2020	1/16/2020	5/8/2020	5/27/2020	5/27/2020	CLOSED	NO	
0023		During review of Duct Bank 5, Sections 1, 2, & 3 - the underground utility warning tape installed is, 3" wide and approximately 100' total placed. Per specification 102761-B-CIV-SPC-0001; states in section 3.10, "Tape shall be six (6) inches wide."	Kiewit	Engineering		10/22/2019		1/22/2020	1/23/2020			1/23/2020	CLOSED	NO	
0024		Material delivered on-site from P.J. Keating was a new material (not existing) which was tested and failed to meet the requirements per specification 102761-B-CIV-SPC-0001 section 3.1	Kiewit			10/24/2019	1/14/2020	1/14/2020	1/14/2020			1/14/2020	CLOSED	NO	
0025		Atlas Copco Air Cooled Heat Exchanger was pressure tested to 1.3 instead of the 1.5 required	Kiewit			11/1/2019	1/10/2020	1/10/2020	1/14/2020			1/14/2020	CLOSED	NO	
0026		The Regen Gas Heater was preserved under a N2 purge with positive pressure of 12-15 psig at the end of fabrication. The purge was physically monitored weekly . However there was no log or record kept of the monitoring. NCR assigned to Taylor Forge	Kiewit	OSSQ	UOP	11/1/2019		11/23/2019	6/24/2020		6/24/2020	7/1/2020	CLOSED	NO	
0027		During concrete testing prior to pouring Duct Bank 5 - Section 4, Fenagh Inspector was asked to take the temperature of the concrete and said, he did not have a thermometer with his testing equipment, Temperature is required per Fenagh's procedure and ACI 301. Infrared Gun was used to verify temperature externally at 58 deg. F. which is not acceptable per ACI 301/ASTM C1064.	Kiewit	Engineering		11/5/2019	3/19/2020	3/1/2020	3/27/2020			3/27/2020	CLOSED	NO	
0028		During the cutting operation of concrete piles, survey (A-Plus) reported pile 5953-L-DP-09 was cut-off approximately 6ft below elevation. Proposed Cut-off=18.75 Actual=13.17. Piles in that run of grade-beam had been being cut-off at approx.13ft as the location was below grade, cuts made on the other adjacent piles were preliminary cuts and not final cuts.	Kiewit			11/9/2019	1/10/2020	11/23/2019	1/21/2020	5/15/2020		3/9/2020	CLOSED	NO	
0029		After grouting operations were completed on micropiles 5850-C-MP-08 & 5850-C-MP-28 centerbars being placed ended up leaning to an out-of-tolerance location horizontally within the casing.	Kiewit	Engineering		12/2/2019	3/19/2020	3/20/2020	7/22/2020	5/15/2020		7/24/2020	CLOSED	NO	
0030		During driving of concrete piles an obstruction was encountered and forced two piles (5900-D-DP-01 & 5900-D-DP-06) out of tolerance and one (5900-D-DP-01) of the two piles out of plumb.	Kiewit	Engineering		1/8/2020	2/13/2020	2/18/2020	2/27/2020			3/9/2020	CLOSED	NO	
0031		During driving of concrete piles obstructions were encountered and forced seventeen (17) piles (5871-D-DP-04, 5871-D-DP-09, 5871-D-DP-14, 5871-D-DP-18, 5871-D-DP-21, 5871-D-DP-24, 5871-D-DP-26, 5871-D-DP-27, 5871-D-DP-28, 5871-D-DP-32, 5871-D-DP-34, 5871-D-DP-35, 5871-D-DP-36, 5871-D-DP-41, 5871-D-DP-43, 5871-D-DP-44, 5871-D-DP-45) out of tolerance and two (2) (5871-D-DP-03 & 5871-D-DP-08) piles out of plumb.	Kiewit	Engineering		1/8/2020		3/23/2020	3/27/2020			3/27/2020	CLOSED	NO	
0032		During driving of concrete piles obstructions were encountered and forced seven (7) piles (5620-F-DP-05; 5620-F-DP-12; 5620-F-DP-21; 5620-F-DP-24; 5620-F-DP-27; 5620-F-DP-28; & 5620-F-DP-31) out of tolerance.	Kiewit	Engineering		1/8/2020	3/18/2020	3/19/2020	6/16/2020	4/17/2020	4/14/2020	6/16/2020	CLOSED	NO	
0033		During driving of concrete piles six (6) piles (5620-F-DP-17; 5620-F-DP-24; 5620-F-DP-25; 5620-F-DP-26; 5620-F-DP-28; & 5620-F-DP-29) did not meet the blow count (driving criteria) per 25ft embedment.	Kiewit			1/8/2020	1/21/2020	1/21/2020	1/21/2020			1/21/2020	CLOSED	NO	
0034		During driving of concrete piles obstructions were encountered and forced one (1) pile (5640-F-DP-03) out of tolerance.	Kiewit	Engineering		1/8/2020	3/23/3030	3/19/2020	3/27/2020			3/27/2020	CLOSED	NO	
0035		During driving of concrete piles obstructions were encountered and forced five (5) piles (5560-G-DP-01; 5560-G-DP-03; 5560-G-DP-04B; 5560-G-DP-05B; & 5560-G-DP-09;) out of tolerance.	Kiewit	Engineering		1/8/2020	3/18/2020	3/19/2020	6/16/2020	4/17/2020	4/14/2020	6/16/2020	CLOSED	NO	
0036		During driving of concrete piles obstructions were encountered and forced one (1) pile (5980-I-DP-09;) out of tolerance.	Kiewit	Engineering		1/8/2020	3/23/2020	3/20/2020	6/16/2020	4/17/2020	4/14/2020	6/16/2020	CLOSED	NO	

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0037		During driving of concrete piles obstructions were encountered and forced two (2) piles (5952-L-DP-03 & 5952-L-DP-09) out of tolerance.	Kiewit	Engineering		1/8/2020	2/13/2020	2/18/2020	2/27/2020			3/10/2020	CLOSED	NO	
0038		During driving of concrete piles obstructions were encountered and forced two (2) piles (5953-L-DP-19 & 5953-L-DP-21) out of tolerance.	Kiewit	Engineering		1/8/2020	2/13/2020	2/18/2020	2/27/2020	4/17/2020	4/14/2020	5/27/2020	CLOSED	NO	
0039		During driving of concrete piles obstructions were encountered and forced one (1) pile (5951-L-DP-14) out of tolerance.	Kiewit	Engineering		1/8/2020	3/23/2020	3/20/2020	6/8/2020	4/17/2020	4/14/2020	6/8/2020	CLOSED	NO	
0040		During driving of concrete piles obstructions were encountered and forced two (2) piles (5870-M-DP-03 & 5870-M-DP-09) out of tolerance.	Kiewit	Engineering		1/8/2020	2/13/2020	2/18/2020	2/20/2020			2/20/2020	CLOSED	NO	
0041		Upon cutting off of the 16" driven concrete piles it was found that the tension connector tubes were not in the correct location embedded in the pile, per Dwg. 102761-B-00-0000-STR-SF-6021 Rev.3 Gen. Notes 8. has a tolerance of +1/8"	Kiewit			10/16/2019	1/8/2020	1/8/2020	1/16/2020	5/15/2020	5/27/2020	5/27/2020	CLOSED	NO	
0042		5870-M-MP-03 was drilled an additional 5 feet in depth total (it achieved a tip elevation of approximately -78.8 feet and the minimum required elevation was -70 feet). As scheduled, 25 feet of casing was pulled. However, with the extra five feet of drilling, we have a total of 70.7 feet of casing on the pile, which is 6.4 feet more than the casing length given for the pile on Sheet 102761-B-00-0000-STR-SF-5872. The tolerance for the casing length is plus or minus 3 feet. Due to length of the subsequent casing sections, pulling an additional 5 feet of casing out (30 total) was not a readily available option for this pile.	Kiewit	Engineering		1/9/2020	2/6/2020	2/7/2020	2/12/2020			3/9/2020	CLOSED	NO	
0043		After drilling Micropile 5870-M-MP-07 to full depth (90'), the operation was shut down due to a safety stand down following a safety incident (12/12/19). Operation was anticipated to resume 12/18/19. Construction put in an RFI asking for the path forward and clarification of same day grout requirement. Recommendation per RFI was not followed per the Engineers approved resolution.	Kiewit	Engineering		1/31/2020	1/31/2020	1/31/2020	2/3/2020			3/11/2020	CLOSED	NO	
0044		During the demolition of an existing slab for the propane foundation Duct Bank #5 was impacted with the excavator mounted hammer. Resulting in the concrete from the Duct Bank being damaged and a 4" conduit being cracked.	Kiewit	Construction		3/20/2020	6/17/2020	3/24/2020	6/26/2020		6/26/2020	6/26/2020	CLOSED	NO	
0045		Micropile 5871-D-MP-02 was found during as-builts to be drilled out of tolerance	Kiewit	Construction		4/14/2020	5/11/2020	5/11/2020	5/28/2020	5/15/2020	5/11/2020	6/17/2020	CLOSED	NO	
0046		Micropile 5570-B-MP-35 and 5570-B-MP-37 was found during as-builts to be drilled out of tolerance	Kiewit	Construction		4/14/2020	5/11/2020	5/11/2020	5/28/2020	5/15/2020	5/11/2020	6/17/2020	CLOSED	NO	
0047		Duct bank foundation #2 (Duct bank #3) was backfilled with structural fill at 87% compressive strength. The guide for form removal, curing and loading of concrete specifies a compressive strength of 100% before it can be backfill with structural fill material.	Kiewit	Construction		6/3/2020	6/5/2020	6/5/2020	6/5/2020		6/5/2020	6/24/2020	CLOSED	NO	
0048		After removal of the forms for the PDC column pedestals it was found that there was areas of concrete that wasn't completely consolidated	Kiewit	Construction		6/3/2020	7/1/2020	7/1/2020	7/8/2020		7/8/2020	7/29/2020	CLOSED	NO	
0049		Embed Plates called out in RFI-000161 were fabricated by a welder qualified only to 3/4" thickness, and actual welds were 1" thickness.	Kiewit	Construction		6/20/2020	7/1/2020	7/1/2020	7/8/2020			10/21/2020	CLOSED	NO	YES

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0050		In the area of the nitrogen access road, reusable on-site soils were placed and not structural fill. There is concern that on-site reusable soils were placed beneath the roadway.	Kiewit	Construction		6/24/2020		6/30/2020	7/1/2020		7/9/2020	7/9/2020	CLOSED	NO	
0051	Cold Box Heat Exchanger Non-Compliance	Cold Box Heat Exchanger. See actual NCR for detailed description.	Kiewit	OSSQ	APCI								OPEN	NO	YES
0052		Shipment of Material with Open NCR	Kiewit	OSSQ	P/H	7/20/2020	7/8/2020	7/22/2020	7/23/2020		8/5/2020	8/5/2020	CLOSED	NO	
0053 R2	Aether Skid Q-Sonic Ultrasonic Flowmeter - Material country of origin	Aether Skid Q-Sonic Ultrasonic Flowmeter has pressure retaining components that originate from The People's Republic of China (PRC). This violates Kiewit specification 102761-B-MEC-SPC-0007 (Pressure Containing Material Sourced from The People's Republic of China Specification). Chinese material is not permitted for hazardous systems per note 2 of appendix 2. The flowmeter system is for Feed gas and is therefore hazardous.	Kiewit	OSSQ	Aether	7/28/2020	9/9/2020						OPEN	NO	YES
0054 R4	ACC Booster Compressor - Missing Charpy & Incorrect NDE %	ACC performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the Booster Compressor in accordance with the Kiewit Detailed Design Criteria, ASME B31.3, the Contract and the National Grid Weld Policy. ACC did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. ...Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subsubparagraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems" ACC performed NDE on Booster Compressor Process Piping except for the lube oil system in accordance with the Kiewit Detailed Design Criteria, NFPA 59A and ASME B31.3. ACC performed NDE on the lube oil system per Kiewit Design Criteria and B31.3. BUT did not perform additional NDE on the lube oil system per Contract Scope of Work 3.10 Welding Requirements : 100% of welds performed on gas piping with a design pressure of 125 psig or greater shall be non-destructively examined by radiograph, ultrasonic, magnetic particle or liquid dye penetrant methods as specified in the National Grid Weld Policy."	Kiewit	OSSQ	ACC	7/31/2020		8/19/2020					OPEN	YES	YES

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0055	APCI Cold Box Aluminum WPS in Doc pack used for shipping release	Cold Box Aluminum WPSs will not be included in Final Doc Pack due to vendor placing proprietary stamp on them.	Kiewit	OSSQ	APCI	8/12/2020							OPEN	NO	
0056 R2	UOP 3 point inspection not completed per	UOP performed final visual weld inspection on all piping welds on the Pretreatment Skids in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. UOP did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld	Kiewit	OSSQ	UOP	8/19/2020		8/25/2020					OPEN	YES	YES
0057	Chart Industries did not provide proper NDE on the Thermal Vaporizer	Chart Industries did not provide proper NDE on the Thermal Vaporizer	Kiewit	OSSQ	CHART	8/19/2020		8/25/2020					OPEN	NO	YES
0058 R1	APCI 3 point inspection not completed per NGWP	APCI performed final visual weld inspection on all piping welds on the Compander Skid package and the N2 Compressor Skid package, in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. APCI did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	APCI	8/19/2020		8/25/2020					OPEN	YES	YES
0059	Cryo and Non Cryo Valves	Puffer Swiven has supplied control valves that have components originating from People's Republic of China(PRC). This violates Kiewit's specification 102761-B-MEC-SPC-0007(Pressure Containing Material Sourced from the People's Republic of China Specification). Chinese material is not permitted for hazardous system per note 2 of appendix 2. Below are valve tags with PRC content 1. Cryogenic Control Valve FCV-3003 2. Cryogenic Control Valve PCV-3309 3. Cryogenic Control Valve TCV-3010 4. Non-Cryogenic Control Valve FCV-2330	Kiewit	OSSQ	Various	9/8/2020	9/8/2020						OPEN	NO	YES
0060	On_Off Valves	Puffer Swiven has supplied On/Off valves that have components originating from People's Republic of China(PRC). This violates Kiewit's specification 102761-B-MEC-SPC-0007(Pressure Containing Material Sourced from the People's Republic of China Specification). Chinese material is not permitted for hazardous system per note 2 of appendix 2.	Kiewit	OSSQ	Various	9/8/2020	9/8/2020						OPEN	NO	YES
0061	Non Cryo Manual Valves	Sunbelt Suply has supplied Non-Cryo valves that have components originating from People's Republic of China(PRC). This violates Kiewit's specification 102761-B-MEC-SPC-0007(Pressure Containing Material Sourced from the People's Republic of China Specification). Chinese material is not permitted for hazardous system per note 2 of appendix 2.	Kiewit	OSSQ	Various	9/8/2020	9/8/2020						OPEN	NO	YES
0062	Compressor Bldg. NUCOR Rafter Welds	Description: Pieces RXB030 and RXB080 were examined for weld discontinuities. On piece #RXB030, out of 16 welds inspected, 10 were found to be undersized or not of sufficient length/spacing (in the case of stitch welds) as per weld symbols. On piece# RXB080, out of 20 welds inspected, 10 were found to be undersized. Pieces taken as representative of entire shipment of steel	Kiewit	OSSQ	Patterson Horth	9/9/2020	10/13/2020	11/6/2020			11/6/2020		OPEN	NO	NO
0063-R1	ACC Booster Compressor 3 Point Inspection	ACC performed final visual weld inspection on all piping welds on the Booster Compressor in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. ACC did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	ACC	9/10/2020	9/10/2020	9/12/2020					OPEN	YES	YES

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0064-R1	APCI N2 Compressor Skid 3 Point Inspection	APCI performed final visual weld inspection on all piping welds on the N2 Compressor in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. APCI did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0065-R1	Aether Feed Gas Metering Skid - 3 Point Inspection	Aether performed final visual weld inspection on all piping welds on the Feed Gas Metering Skid in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. Aether did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	Aether	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0066-R1	APCI ColdBox - 3 Point Inspection	APCI performed final visual weld inspection on all piping welds on the ColdBox in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. APCI did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0067-R1	APCI Crossover Box - 3 Point Inspection	APCI performed final visual weld inspection on all piping welds on the Crossover Box in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. APCI did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0068-R1	Chart Truck Loading Skid - 3 Point Inspection	Chart performed final visual weld inspection on all piping welds on the Truck Loading Skid in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. Chart did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	Chart	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0069-R1	Chart Nitrogen Vaporization Package - 3 Point Inspection	Chart performed final visual weld inspection on all piping welds on the Nitrogen Vaporization Package in accordance with the Project specifications, ASME B31.3, the Contract, and the National Grid Weld Policy. Chart did not document weld joint fit-up and weld root inspection on all welds as described in the National Grid Weld Policy Section 5.3 Welder Qualification c. Responsibilities 2) The Welding Inspector shall be responsible for completion of a Weld Record Inspection Report Attachment B (No actual Attachment B in the contract, assuming to be Attachment 2 Weld Record and Inspection Report Gas Transmission (125 PSIG and greater). Use this report form or similar log/form to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	Kiewit	OSSQ	Chart	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0070-R1	Atlas Copco Comptec - Booster Compressor - Base Metal Charpy SS	Atlas Compcoc Comptec performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the Booster Compressor in accordance with the Kiewit Detailed Design Criteria, ASME B31.3, the Contract and the National Grid Weld Policy. Atlas Copco did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	ACC	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES

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0071-R1	APCI - N2 Compressor Skid - Base Metal Charpy SS	APCI performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the N2 Compressor Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0072-R1	APCI - Compander Skid - Base Metal Charpy SS	APCI performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the Compander Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0073-R1	APCI - Crossover Box - Base Metal Charpy SS	APCI performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the Crossover Box in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0074-R1	APCI - Cold Box - Base Metal Charpy SS	APCI performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the ColdBox in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0075-R1	UOP - Gas Pretreatment Package - Base Metal Charpy CS	UOP performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the Compander Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. UOP did not perform Charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Sub paragraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems"	Kiewit	OSSQ	UOP	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0076	Chart - Nitrogen Vaporizer - Base Metal Charpy SS	Chart performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the Nitrogen Vaporizer in accordance with the Kiewit Detailed Design Criteria, ASME B31.3, the Contract and the National Grid Weld Policy. Chart did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	Chart	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0077-R1	Chart - Truck Loading Skid - Base Metal Charpy SS	Chart performed Charpy Impact Testing on stainless steel welding procedures for the weld metal and heat affected zone for the Truck Loading Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. Chart did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5.5 In-Service Welder Procedure Specification; Paragraph c. Procedure Qualifications; Subsection 1) All welding procedure qualifications for Austenitic Stainless Steel piping..."; Subparagraph i. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	Kiewit	OSSQ	Chart	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0078-R1	APCI - N2 Compressor Skid - NDE Requirements	APCI did not perform additional NDE per Contract Scope of Work 3.10 Welding Requirements: 100% of welds performed on gas piping with a design pressure of 125 psig or greater shall be non-destructively examined by radiograph, ultrasonic, magnetic particle or liquid dye penetrant methods as specified in the National Grid Weld Policy."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0079-R1	APCI - Compander NDE Requirements	APCI did not perform additional NDE per Contract Scope of Work 3.10 Welding Requirements: 100% of welds performed on gas piping with a design pressure of 125 psig or greater shall be non-destructively examined by radiograph, ultrasonic, magnetic particle or liquid dye penetrant methods as specified in the National Grid Weld Policy."	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES

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0080-R1	UOP - Gas Pretreatment Package - NDE Requirements	UOP performed NDE on Gas Pretreatment Package Piping in accordance with the Kiewit Detailed Design Criteria, NFPA 59A and ASME B31.3. UOP did not perform additional NDE per Contract Scope of Work 3.10 Welding Requirements: 100% of welds performed on gas piping with a design pressure of 125 psig or greater shall be non-destructively examined by radiograph, ultrasonic, magnetic particle or liquid dye penetrant methods as specified in the National Grid Weld Policy."	Kiewit	OSSQ	UOP	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0081-R1	Chart - Nitrogen Vaporization Package - NDE Requirements	Chart performed NDE on Nitrogen Vaporization Piping in accordance with the Kiewit Detailed Design Criteria, NFPA 59A and ASME B31.3. Chart did not perform additional NDE per Contract Scope of Work 3.10 Welding Requirements: 100% of welds performed on gas piping with a design pressure of 125 psig or greater shall be non-destructively examined by radiograph, ultrasonic, magnetic particle or liquid dye penetrant methods as specified in the National Grid Weld Policy."	Kiewit	OSSQ	CHART	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0082	Partially Cut Shear Key Pocket Horizontal Reinforcement Steel Bar	While attempting to install steel column number A1 into its shear key pocket that is located on the new compressor building concrete foundation structure, it has been discovered that the exposed horizontal reinforcement steel within the bottom of the shear key pocket prohibits the full penetration of the steel column's shear lug down into the pocket as required. Field crews began cutting the horizontal rebar out of the way in order to resolve the conflict and to make room for the column's shear lug prior to receiving written RFI approval to do so.	Kiewit	Construction	Site	9/10/2020	9/11/2020	8/19/1010	9/18/2020			10/13/2020	CLOSED	NO	YES
0083-R1	APCI - N2 Compressor Skid - Base Metal Charpy CS	APCI performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the N2 Compressor Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. ..Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subsubparagraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems"	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0084-R1	APCI - Comander Skid - Base Metal Charpy CS	APCI performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the Comander Skid in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform Charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. ..Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subsubparagraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems"	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0085-R1	APCI - Cold Box - Base Metal Charpy CS	APCI performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the Cold Box in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. APCI did not perform Charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. ..Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subsubparagraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems"	Kiewit	OSSQ	APCI	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES
0086-R1	Chart - Nitrogen Vaporizer - Base Metal Charpy CS	Chart performed Charpy Impact Testing on carbon steel welding procedure for the weld metal and heat affected zone for the Nitrogen Vaporizer in accordance with the project specifications, ASME B31.3, the Contract and the National Grid Weld Policy. Chart did not perform Charpy impact testing for the base metal as described in the National Grid Weld Policy Section 5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph i. ..Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subsubparagraph 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone and shall meet the following specified maximum test temperatures: a. 20 ft-lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 ft-lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 ft-lbs. at -20 degrees F for National Grid Gas Station piping systems"	Kiewit	OSSQ	Chart	9/10/2020	9/11/2020	9/12/2020					OPEN	YES	YES

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0087	Use Of releasing agent on Concrete forms	After removal of formwork, portions of the concrete placed this Wednesday were observed to have porous surface areas. This surface issue is believed to be the result of Kiewit placing concrete without coating the job-built forms with a release agent (the job-built forms were observed to have concrete adhered to their face after removal).	Kiewit	Construction	Site	9/22/2020					11/17/2020		OPEN	NO	YES
0088	Duckbank conduit D0125 Off coordinates	Conduit D-0125 moved during concrete placement encroaching on the Termination Cabinet Stee Support base plate for the Feed Gas Booster Compressor.	Kiewit	Construction	Site	10/1/2020	10/5/2020	10/6/2020			10/6/2020		OPEN	NO	YES
0089	Road Clash	Roadway section as shown on 102761-B-CIV-CD-3003 detail STA. 10+00.00 to STA. 14+81.20 does not account for 4' 6" wide section of Rip Rap R-6 gradation as shown on 102761-B-STR-SF-5175 detail 8 (Thornton Tomasetti). This results in a 4'6" road width reduction unless modifications are made to 102761-B-STR-SF-5175 detail 8 to widen the roadway.	Kiewit	Engineering	Site	10/1/2020							OPEN	NO	YES
0090	Compressor Building Anchor Bolt Off	COLUMN B1 anchor bolts off location	Kiewit	Engineering	Site	10/2/2020							OPEN	NO	NO
SR010-RPT-001		The Contract, Number 4400005216 between National Grid LLC and Kiewit Power Constructors Co. states in section 3.20.6 of the Scope of Work and list of Deliverables, the Contractor shall be responsible for providing warehouse and storage facilities both on and off site. Also stated in the section "It shall be the responsibility of the Contractor to store, protect and maintain all equipment and materials in accordance with SOW, the Supplier's preservation requirements and good practice. ** see attached exhibit "B" for details **	Client	OSSQ		5/1/2019		11/15/2019	11/15/2019	6/15/2020	6/22/2020	6/22/2020	CLOSED	NO	
SR010-RPT-001 r1		Section 18.0 of the Kiewit Quality Management system outlines the control of nonconformities for products and services. 18.3 States when a nonconforming situation or product is detected, the issue is documented (NCR Log) and actions are taken to correct or resolve the issue in a timely manner. The paint system identified for use on the LD-1000A/B/C Absorber and the Gas Separator LDD-1011 vessels are required to be a High Temp Coating system as identified by Kiewit Coating Systems Selection Guide - 102761-B-STR-SPC-003 rev B Section 2.1.3 Uninsulated Vessels with Max Operating temp > 350 and ≤ 750 require a #14 Coating System with IZ/HS/HS (2 coats Heat-Cured Silicone (HS) coating). This paint system requirement was also noted was also on earlier drawing revisions but later changed to the low temp non-compliant system.	Client	OSSQ	UOP	6/11/2019		7/31/2019	7/31/2019	6/26/2020	9/30/2020	9/30/2020	CLOSED	NO	YES
SR010-RPT-002		Section 12.0 of the Kiewit Quality Management System revision 3 requires that All documents and data will be received and reviewed and the individuals shall Retrieve or stamp Void, Superseded or equivalent on all superseded documents. This requirement has been intermittent and there are superseded documents in TeamBinder that are not shown as having been properly stamped.	Client			6/23/2019		11/15/2019	11/15/2019	4/24/2020	5/27/2020	6/8/2020	CLOSED	NO	
SR010-RPT-003		Subsequent to a review of the data books for LD-1000A, 1000B and 1000C Absorber, a request was made to Kiewit Quality and Procurement to provide (2) radiographic film packages for National Grid review on or around May 3rd, 2019 from the Gulf Coast Alloy Welding / UOP vendor. As of this date after several additional requests the film has not been provided. The reports are noted as number 224 and 211 from Phoenix Non-Destructive Testing Co and reference welds on Nozzle "C" LD-1000A and Nozzle "C" LD-1000C Absorber's. (see attached)	Client			6/23/2019		7/31/2019	7/31/2019	9/27/2019	9/27/2019	9/27/2019	CLOSED	NO	
SR010-RPT-004		Kiewit QMS r3 and the Kiewit Quality Plan 102761-B-QLT-PLN-0001 define the requirement's to build and construct to meet the design and engineering specifications to ensure construction is in accordance with approved standards. Field construction and/or Kiewit subcontractor GTR relocated the strain gauge from the position as noted in 102761-B-STR-SPC-0019 rev2 as shown on drawing 102761-B-00-0000-STR-SK-6001 rev B without proper written documentation or a RFI to support this change. Several days after the change had been implemented, 102761-B-STR-SPC-0019 r3 was released noting said change. Key personnel from Kiewit and National Grid were not aware of the change until revision 3 was released .	Client			7/1/2019		9/9/2019	9/9/2019	9/9/2019	9/9/2019	9/9/2019	CLOSED	NO	
SR010-RPT-005		During a meeting with National Grid and Kiewit Engineering on or about April 13, 2019, it was discussed that certain Mechanical Piping specifications referenced the NFPA-59A-2019 ode version which is incorrect. The project is using NFPA-59A-2001 version per FERC requirements. A review of the following specifications in TeamBinder show these documents are still referencing the incorrect specification: EAA2, ECC1, BCC1, DAA2, DCC1. This list may not be inclusive of all specifications with the wrong Code Version.	Client			7/3/2019		8/27/2019	8/27/2019	9/27/2019	9/27/2019	9/27/2019	CLOSED	NO	
SR010-RPT-006		Kiewit's Procurement Plan requires non-conforming materials received to be placed in a quarantine area and/or marked as do not use	Client			7/30/2019		10/21/2019	10/21/2019	5/27/2020	5/27/2020	10/21/2019	CLOSED	NO	

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SR010-RPT-007		The Contract states in, Section 2.23 Inspection and Testing, that Kiewit is to provide the owner in writing no less than (10) Business days, written notice of scheduled dates for the conduct of, and opportunity to witness, the off-site testing as described on Appendix "T". Kiewit allowed Atlas Copco to conduct a hydrotest of the Feed Gas Booster Compressor without providing National Grid proper notification of the test.	Client			8/1/2019		11/15/2019	11/15/2019	5/15/2020	5/27/2020	5/28/2020	CLOSED	NO	
SR010-RPT-008		Incorrect hydro test pressure and hold time for firewater line. Test was not conducted in accordance with NFPA 24	Client			8/2/2019		9/27/2019	9/27/2019	9/27/2019	9/27/2019	9/27/2019	CLOSED	NO	
SR010-RPT-009		Kiewit is required to notify National Grid per the Master ITP on Hold and Witness points. NG was not notified for the First Shipment of Piping Fabrication	Client			8/5/2019		11/15/2019	11/15/2019	5/28/2020	5/28/2020	6/1/2020	CLOSED	NO	
SR010-RPT-010		Section 3.10 <i>Welding Requirements</i> , requires all procedures for welding of piping, vessels and equipment performed off-site shall be submitted to the owner for review and approval prior to construction. ABB were not conveyed this information	Client			8/8/2019		8/8/2019	8/8/2019	9/27/2019	9/27/2019	9/27/2019	CLOSED	NO	
SR010-RPT-011		Section 3.21.23 of the Contract states " the Contractor shall provide "fully functional, integrated, electronics data and document management system." TeamBinder which is the existing Document Control Management system has not proved to be a functional system. This system has shown to be unable to consistently provide access by the Owner to the technical documents for review which are related to this project both pre-suspension and post suspensions documents. Large data dumps are transmitted without regard to previous review and comments by Owner. Documents have been removed from the obligatory (10) day period prior to period completion. Comments made by the Owner during the document review have not been incorporated into the subsequent document release. The Owner has been subjected to Beta testing of system changes which has proven to be ineffective and confusing to the overall document control procedure.	Client			8/8/2019		12/16/2019	1/15/2020	5/21/2020	5/21/2020	5/21/2020	CLOSED	NO	
SR010-RPT-012		Section 7.2 Procurement Strategy of the Contract Project Execution Plan states, "The release of shipments from a supplier's shop is controlled by the inspector. A final inspection release to authorize the Supplier to ship will be issued after the inspector is satisfied that the work has conformed to the technical specifications, that the Supplier has complied with the required quality assurance programs, that all QA, inspection, test and material certificates have been provided." The underground piping vendor, PSI, shipped a load of piping in which the firewater piping had the wrong hold time for hydro testing, and the Feed Gas spools were missing NDE radiograph requirements. A final inspection release was not generated showing the shipment was in compliance with the project specifications.	Client	OSSQ	PSI	8/14/2019		4/1/2020	5/26/2020	5/28/2020	5/28/2020	5/28/2020	CLOSED	NO	
R010-RPT-013 R1		The Prime Contract Attachment (7) requires APCI to comply with the noted and referenced Codes and Standards used in APCI scope of supply for National Grid. This section references NFPA 59A, Standard for the Production, Storage and Handling of Liquefied Natural Gas (LNG). A review was made of the quality deliverables for the Crossover Bridge and such review noted the actual NDE performed was not in compliance with the NDE requirements as listed in NFPA 59A - 2001 Chapter 6	Client	OSSQ	APCI	8/20/2019		11/15/2019	4/13/2020	6/15/2020		5/28/2020	CLOSED	NO	
SR010-RPT-014		The Prime Contract Section 3.10 Scope of Work requires all procedures for welding of piping, vessels and equipment performed off-site shall be submitted to Owner for review and approval prior to construction. A pre-hydro data review for the APCI Crossover Bridge piping noted the welding procedures used in the piping construction were not submitted as per this requirement	Client			8/20/2019		9/27/2019	9/27/2019	11/15/2019	11/15/2019	11/15/2019	CLOSED	NO	
R010-RPT-015 R1		The Prime Contract Attachment (7) requires APCI to comply with the noted and reference Codes and Standards used in APCI scope of supply for National Grid. This section references NFPA 59A, Standards for the Production, Storage and Handling of liquefied Natural Gas (LNG). A review was made of the quality deliverables for the Cold Box (document 94.03.47.100-RE-0065-001.00.VDR.00.01) and such review noted the actual NDE performed was not in compliance with the NDE requirements as listed in NFPA 59A - 2001 Chapter 6	Client	OSSQ	APCI	8/20/2019		11/15/2019	4/13/2020	6/1/2020	6/17/2020	6/19/2020	CLOSED	NO	

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SR010-RPT-016		The Vendor Data Books for UOP/GCAW equipment was submitted to National Grid for review. The books containing fabrication documentation for LD-1000 A/B/C absorber's; LDD-1011 Gas Separators; LDS - 1010 A/B Particle Filters were reviewed buy National Grid and found to be non-compliant with the contract requirements	Client	OSSQ	UOP	8/29/2019		11/6/2020	5/28/2020	7/15/2020	11/6/2020	11/6/2020	CLOSED	NO	
SR010-RPT-017		The Vendor Data Book for UOP/GCAW equipment was submitted to National Grid for review. The book contained fabrication documentation for the LD-1011 Gas Separator. The data book was reviewed by National Grid and found to be non-compliant with the contract requirements.	Client	OSSQ	UOP	8/29/2019		4/6/2020	5/28/2020	6/24/2020	10/6/2020	10/6/2020	CLOSED	NO	YES
SR010-RPT-018		Kiewit Project Specific procurement plan 102761-B-QLT-PLN-0002 "Seller/Subcontractor Kickoff Meeting All contracts with a risk level of four (4) and five (5) are required to conduct kick-off meetings upon execution of the contract and prior to mobilization (See OSSQ Section of this plan to understand how risk levels are assigned). The Contracts Manager is responsible for scheduling and facilitating the meeting. Project team attendees include the following as applicable: Responsible Engineer, Engineering Lead, Project Expeditor, Field Handler, OSSQ Manager and Constructability Lead." The Master ITP file identifies risk level 4 & 5 equipment and required Kick-off meetings have not been conducted prior to commencement of fabrication for many of these vendors.	Client			8/28/2019		9/27/2019	9/27/2019	11/15/2019	11/15/2019	11/15/2019	CLOSED	NO	
SR010-RPT-019		Kiewit Project Specific Procurement Plan 102761-B-QLT-PLN-0002 requires the Master ITP to be maintained with dates for fabrication, specification inspection, testing, witness and hold points requiring scheduled shop oversight. The Master ITP Schedule shall include all Witness and Hold Points, Factory Acceptance Test, recommended quality audits and any additional recommended in-process shop inspection and expediting activities. The project has submitted several copies of the Mater ITP to National Grid that are incomplete regarding dates and required inspections as noted in the referenced Procurement Plan.	Client			9/23/2019		11/15/2019	11/15/2019	5/28/2020	5/28/2020	6/4/2020	CLOSED	NO	
SR010-RPT-020		A ground Water monitoring well (mw) was identified in Kiewit's work area for Field Point Liquefaction Project in an area that required placement of several feet of fill. National Grid SIR provided guidance to Kiewit on closure of the mw in accordance with RI DEM requirements, prior to placement of the fill material. Kiewit did not follow proper closure procedures and did not notify On-Site environmental for required oversight of mw closure procedure.	Client			10/3/2019		11/15/2019	11/15/2019	11/15/2019	11/15/2019	11/15/2019	CLOSED	NO	

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SR010-RPT-021		During the course of the Civil Audit #102519-002 performed at site; Checklist Item 4.0 (c) Has proof rolling been approved by the Geotechnical Engineer in coordination with the Field Representative? The audit team stated that the Geotechnical Engineer was not notified in accordance with Section 4.9 of the Earthwork Specification – 102761-B-CIV-SPC-0001. The audit team was unable to provide documentation supporting the requirement was met.	Client	Engineering		11/1/2019		3/27/2020	4/3/2020	6/5/2020	6/22/2020	6/23/2020	CLOSED	NO	
SR010-RPT-022		During the course of the Civil Audit #102519-002 performed at site; Checklist Item 3.0 (g) Does the Geogrid meet the requirements as required by Earthwork Specification section 3.12. Documentation showing approval for the Geogrid materials was not provided prior to construction and were subsequently approved by the Geotechnical Engineer on 10/24/2019 which is after the placement of the materials. The audit team was unable to provide documentation supporting approval prior to the start of construction.	Client			11/1/2019		1/7/2020	1/7/2020	1/7/2020	1/7/2020	1/7/2020	CLOSED	NO	
SR010-RPT-023		On October 11, 2019 Kiewit and National Grid attended a shop inspection to witness hydro testing of the L9020-A/B N2 storage vessels located at Chart Ind. New Prague, MN. Upon arriving, the (2) vessels of interest were set up to conduct a cold-stretch test in accordance with ASME Section VIII Appendix 44. The subsequent Off-Site Vendor Surveillance report 191011 per OSSQ stated that Chart conducted a Cold Stretch Test in Lieu of a hydro and further referenced ASME Section VIII Div. 1 Appendix 44 as reference. A review of the 2017 version of Mandatory Appendix 44 states in 44-6.1 (f) ...the pressure test required by UG-99 or UG-100 shall be applied after all welding on the pressure retaining parts. . . Kiewit has not provided National Grid written proof that a hydro test was performed and documented on the vessels in question.	Client	OSSQ		11/4/2019		11/15/2019	11/15/2019	6/24/2020	7/8/2020	7/8/2020	CLOSED	NO	
SR010-RPT-024		Section 3.10 of the Prime Contract NUMBER 4400005216 requires Kiewit to submit all welding procedures for piping, vessels and equipment performed off-site to Owner (National Grid) prior to start of construction. Kiewit is required to review the welding procedures for project compliance prior to submittal for National Grid review. The welding procedures for IFS's subcontractor, Transend were not submitted to Owner for approval after review by Kiewit.	Client	OSSQ	Integrated Flow Solutions	12/21/2019		5/19/2020	5/19/2020	5/21/2020	5/21/2020	5/20/2020	CLOSED	NO	
SR010-RPT-025		The Contract states in, Section 2.23 Inspection and Testing, that Kiewit is to provide the owner in writing no less than (10) Business days, written notice of scheduled dates for the conduct of, and opportunity to witness, the off-site testing. Kiewit allowed IFS/Transend to conduct a hydrotest of the Feed Gas Filter without providing National Grid proper notification of the test.	Client	OSSQ	Integrated Flow Solutions	1/16/2020		4/2/2020	5/21/2020	5/21/2020	5/21/2020	5/21/2020	CLOSED	NO	
SR010-RPT-026		Regen Gas Heater LDE-1021A tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with minor pit like indications showing a measured wall loss. In addition during the inspection several tubes were found to have been bent which caused contact between adjacent tubes causing a non relevant indication with one tube was only partially scanned due to the bent condition.	Client	OSSQ	UOP	2/5/2020		3/16/2020	5/28/2020	6/15/2020	6/5/2020	6/8/2020	CLOSED	NO	
SR010-RPT-027		Regen Gas Heater LDE-1021B tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with indications. One tube was bent within the first foot and could not be inspected and one tube had non-relevant indication due to tube to tube contact. See attached report IFS/Transend to conduct a hydrotest of the Feed Gas Filter without providing National Grid proper notification of the test.	Client	OSSQ	UOP Integrated Flow Solutions	2/5/2020		3/16/2020	5/26/2020	6/15/2020	6/5/2020	6/8/2020	CLOSED	NO	
SR010-RPT-028		Kiewit procedure 102761-B-QLT-PRO-0011 Corrective & Preventative Actions states the purpose of the said procedure is to establish a continuous improvement process for generating documentation and implementing Corrective and Preventive Actions in accordance with Kiewit's Quality Management System. Section 19.3 of the QMS Rev. 3 states that corrective or preventive action requests can be initiated by the client or by the our employees. National Grid has determined that the number and cases of Non-Compliance Reports (NCR) generated for this project has warranted Corrective Action Reports (CAR's) and has requested on several occasions such reports be generated . To date Kiewit has not generated CER's	Client	Quality		2/21/2020		3/16/2020	4/23/2020	6/15/2020	6/22/2020	7/8/2020	CLOSED	NO	
SR010-RPT-029		Kiewit document control 102761-B-QLT-PRO-0009 Project Quality Audit procedure states the procedure is to verify the overall effectiveness of the quality program along with the proper implementation . It will also insure work is conducted in accordance with the customer's quality expectations including contract, code, jurisdiction requirements and Cherne Project Quality Management system. This procedure applies to all Cherne's project locations as well as shop and manufacturing facilities. Section 20.0 of the Quality management System Rev.3 defines the requirement of both internal and external audits which are required to be performed. As of this date, National Grid has not received any audit notifications or audit reports as required by Kiewit's QMS Rev.3 National Grid has conducted several audits on Kiewit as of this date.	Client	Quality		2/21/2020		3/16/2020	4/10/2020	6/1/2020	5/27/2020	6/4/2020	CLOSED	NO	
SR010-RPT-030		The Contract, Section 3.10 Welding Requirements, requires all procedures for welding of pipe, vessels and equipment performed off-site to be submitted to the Owner for review and approval prior to construction. This requirement is also noted in the contract between Kiewit and Patterson Horth SSC-7200002536 Compressor Building. Nucor, sub-vendor to Patterson Horth has refused to submit the required welding procedures as company proprietary information.	Client	OSSQ	Patterson Horth	2/27/2020		3/20/2020	4/23/2020	5/28/2020	5/28/2020	5/29/2020	CLOSED	NO	

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R010-RPT-031 R1		Fields Point Project Management of Change Implementation process, dated March 15th, 2019 define the requirements for Major Changes in Sec.3.3 and the requirements for Minor change in Sec.3.4. Each respective section further provides the steps and processes on how changes are implemented utilizing forms, team reviews, studies and an additional requirement that the MOC is only to be implemented once approval had been received. Kiewit has modified and submitted in late quantity P&ID drawings and classified these drawings as IFC. These drawings depict processes that have been changed, which is in violation of the MOC Implementation Plan. The required MOC documentation and prior approval of the MOC is required as stated in the implementation plan.	Client	Engineering		2/27/2020		4/1/2020	4/20/2020	5/28/2020	5/28/2020	5/29/2020	CLOSED	NO	
SR010-RPT-032		Kiewit placed backfill on Duct Bank area 7 using (12") lifts. Earthwork Specification 102761-B-CIV-SPC-001 REV. 01 states in Sec. 4.15 Compaction Requirements for Trenches the backfill shall be in 6" lifts	Client	Engineering		2/27/2020		3/10/2020	4/2/2020	6/15/2020	6/22/2020	7/8/2020	CLOSED	NO	
SR010-RPT-033		Kiewit Plain and Reinforced Concrete procedure 102761-B-STR-SPC-0024 rev 1 Sec. 4.6.2.3 states form removal shall be in accordance with ACI 301/ACI 301M and the following, which states certain forms could be removed in (48) hours. ACI Sec. 2.1.2.1.c requires a submittal of a method for determining concrete strength for formwork removal is in accordance with 2.3.4.2 when a method other than field-cure cylinders is proposed. ACI 347 section 3.7.3.1 states the engineer/architect should specify a minimum strength of the concrete to be obtained before removal of forms or shores. Sec. 3.7.2.3states because the minimum stripping time is a function of concrete strength, the preferred method of determining stripping time is using tests of job-cured cylinders or in place concrete. An alternative method has not been submitted for approval and forms have been removed before a compressive strength test has been completed and	Client	Engineering		3/2/2020		3/27/2020	3/27/2020	3/27/2020	3/27/2020	3/27/2020	CLOSED	NO	
SR010-RPT-034		Kiewit QMS rev.3 sec.18.3 States "When a nonconforming situation or procedure is detected, the issues is documented and actions are taken to correct or resolve the issue in a timely manner. National Grid has (4) NCR's generated during 2019 without agreed dispositions: (14) NCR's generated during 2019 that are without closure.	Client	Quality		3/2/2020		3/16/2020	5/26/2020	5/28/2020	5/28/2020	5/28/2020	CLOSED	NO	
SR010-RPT-035		National Grid performed an audit on legacy film 3886 LD-1000/C Absorber at the GCAW facility and rejected the Number 4 weld on nozzle "B" due to chemical stains rendering the film non-compliant with code requirements.	Client	OSSQ	UOP	3/3/2020		5/21/2020	5/26/2020	6/24/2020	7/16/2020	7/16/2020	CLOSED	NO	
SR010-RPT-036		Section 2.6 Employees and Key Personnel of the Prime Contract requires Key Personnel to be devoted to the Liquefaction Project for all of the time which is necessary to perform the Work and Contractor shall not remove or replace any of the Key Personal without the prior written approval of the Owner, which approval shall not be unreasonably withheld. Kiewit has on multiple occasions removed and replaced Key Personal on the Project with new personal without proper notification and/or approval.	Client	Construction		3/4/2020		3/10/2020	5/29/2020	6/1/2020	6/22/2020	7/8/2020	CLOSED	NO	
SR010-RPT-037		The Engineering, Procurement and Construction Contract 4400005216 provides requirements for the Contractor to submit documents for Client review and approval. These requirements are addressed in the Scope Of Work Sec. 2.25 and further in appendix "U". The attached Kiewit TRN# 02088 shows (10) Piping Material Specifications that were revised without providing to the client for review and/or approval. The attached review history show an example where Piping Specifications 102761-B-MEC-SPC-0083was issued a Studio Session for Rev. A & B but sessions for Rev. 00, 01, 02, & 03 were not issued.	Client	Engineering		3/10/2020		4/6/2020	4/10/2020	5/15/2020	5/28/2020	6/4/2020	CLOSED	NO	
SR010-RPT-038		Section 2.25 Design and Engineering Work paragraph (f) of the contract states As Built and Specifications During construction, Contractor shall keep a redlined, marked, up-to-date set of As-Built Drawings and specifications on the Work Site as required under Appendix "U". Kiewit has not maintained a "set" of as-built drawings as required by the statement above for piling and other civil activities.	Client	Construction		3/24/2020		5/28/2020	5/28/2020	5/28/2020	5/28/2020	6/4/2020	CLOSED	NO	
SR010-RPT-039		Section 3.3 Engineering Design listed under the Scope of Work states. "Development of up-to-date equipment lists, Drawings, specifications, and requisitions schedules. Frequency to be agreed with Owner as appropriate". National Grid has made repeated requests for Kiewit to provide an updated Drawing Index on a weekly basis and has not happened.	Client	Construction		3/24/2020		4/6/2020	4/6/2020	6/1/2020	6/2/2020	6/17/2020	CLOSED	NO	
SR010-RPT-040		The contract requires Kiewit to develop within (45) days of Full Notice to Proceed (FNTP) a Project Procedure Manual and as the prime purpose of the PPM is to ensure consistent project processes and procedures. National Grid has requested that Kiewit develop a Site Specific Document Control procedure for over (8) months and as of this date the reference procedure 102761-B-DMT-PRO-001 FPLP Document Control Procedure has not fully addressed the Owner's comments as contractually required.	Client	Construction		3/24/2020		6/2/2020	6/2/2020	6/1/2020	6/2/2020	6/2/2020	CLOSED	NO	
SR010-RPT-041		Kiewit performed a closure of the Dry Well next to the Old Propane House without properly notifying National Grid Construction, environmental and GZA. Procedural steps were provided to Kiewit Construction Manager by National Grid Construction manager on Friday march 20th, 2020 which outlined the steps and notification requirements for the proposed activity. Kiewit performed the work on Monday March 23rd without notified the proper personnel as provided by national Grid.	Client	Construction		3/25/2020		4/1/2020	6/22/2020	6/15/2020	6/22/2020	7/8/2020	CLOSED	NO	

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SR010-RPT-042		Kiewit OSSQ performed a final Inspection and document review on 4/8/2020 at the Highland Tank facility (Report #200408 Highland Tank). There were multiple findings during this visit which included (1) U-1A form requires correction (2) Multiple X-ray reports were found to be non-compliant; missing "F" markers, missing acceptance noted on the report (3) PMI testing showed low values on nickel composition (4) missing NDE testing prior to hydro testing (5) welder performance qualification records were found to have various errors. (5) welding procedures were found to have typographical errors on the PQR documents.	Client	OSSQ	Highland Tank	4/16/2020		5/21/2020	5/27/2020	6/26/2020	7/22/2020	7/23/2020	CLOSED	NO		
SR010-RPT-043		The contract #4400005216 between National Grid and Kiewit Power Constructors Co. states in Sec. 3.20.6 of the Scope of work and List of Deliverables the Contractor shall be responsible for providing warehouse and storage facilities both on or off site. Also stated in this section "it shall be the responsibility of the contractor to store, protect and maintain all equipment and materials in accordance with the SOW, the Supplier's preservation requirements and good practice." The final inspection and FAT testing were conducted on 3/5/2020 and National Grid's request for Preservation and Maintenance and inspection records have not been provided which indicates the P&M for the PDC and installed electrical equipment has not been performed in accordance with the manufacturer's requirements.	Client	OSSQ	Cape	4/24/2020		5/13/2020	5/13/2020	5/13/2020	5/13/2020	5/13/2020	CLOSED	NO		
SR010-RPT-044		The Prime Contract requires Kiewit to provide Client with a copy of any Supply Contract within (10) days after request by Owner. National Grid has requested Kiewit to provide a SDS (Supplier Document Schedule) showing quality deliverables and schedule for the Compressor Building contract. As of this writing, the SDS has not been provided.	Client			5/5/2020		5/20/2020	5/20/2020	5/28/2020	5/29/2020	5/29/2020	CLOSED	NO		
SR010-RPT-045		The Prime Contract, Vendor Contract and Vendor and Subcontractor Document Control and Expediting Procedure provide requirements for Vendors and Subcontractors to provide documentation deliverables per the Seller's Deliverable Schedule. The submittal process shall use the Vendor Data Module of InEight Document (TeamBinder). Additional requirements also state the type of quality deliverables required for submittal. The QA/QC program requirements are passed on to the second-tier suppliers and that the subcontractor enforces them. Nucor, a subcontractor to Patterson Horth has refused to submit the quality deliverables as are required through InEight for Owner review and approval.	Client	OSSQ	P/H NUCOR	5/5/2020		6/1/2020	6/1/2020	6/15/2020	8/13/2020	8/18/2020	CLOSED	NO		
SR010-RPT-046		Section 3.10 of the Contract requires all welding procedures to be submitted to Owner for review and approval prior to construction. The Base plates for the PDC column drawing 102761-00-0000-sTR-SF-5806 detail 1 were modified to use a welded embed rod versus the anchor bolt as called out. The fabrication was performed off-site and subsequently installed without Owner approval of welding procedure or welder qualification.	Client	Construction		6/2/2020		6/2/2020	6/24/2020		10/6/2020		OPEN	NO	YES	
SR010-RPT-047		Drawing 102761-B-00-0000-STR-SF-5175 detail 8 shows using Mirafi 180N or equal geotextile fabric. The 3rd lift construction used Mirafi 140N instead of the required 180N. This substitution was not approved by Engineering prior to the placement and is considered non-compliant with the specification.	Client	Construction		6/2/2020		6/2/2020	6/22/2020	6/30/2020	8/12/2020	8/17/2020	CLOSED	NO		
SR010-RPT-048		Kiewit procured base plates for the PDC building columns from an outside vendor. The base plates required welding (4) 1" diameter embed rods to the plate in accordance with Kiewit RFI-000161 replacing the previously designed anchor bolts. The welding of the embed rods was performed and installed. A review of the weld procedure and welder qualification records provided from the outside vendor showed the welder was qualified for maximum 3/4" thickness in accordance with AWS D1.1 but the overall rod welded was 1" diameter for which was outside the welder's qualified limitations. Kiewit failed to properly review and vet the outside vendor for the work performed.	Client	Construction		7/15/2020		7/15/2020	7/15/2020			10/15/2020		CLOSED	NO	YES
SR010-RPT-049		Kiewit's Thermal Control plan dated Dec. 5, 2019 provides specifications and tolerances for mass concrete pour temperatures delta between core and near surface. Section "F" of this specification of this specification limits the temperature delta between the core and near concrete surface to a maximum of 35 deg. F during the first 4 day. The pour was placed on 5/28/2020 and the attached data log shows for a period of approximately (8) hours between 5/30/2020 @ 5:08 AM until 5/30/2020 @ 12:08 PM the monitored temperature differential was in excess of 35 deg F	Client	Construction		6/11/2020		7/10/2020			7/15/2020	7/16/2020	7/16/2020	CLOSED	NO	
SR010-RPT-050		Hudson Products, subcontractor to Kiewit, submitted their ASME Welding Process Usage Log for National Grid review and the review showed the continuity lacked full traceability to show the welders welded with their qualified process(es) during the previous welding periods as required by ASME Sec. IX. Hudson is contracted to provide the Air Cooled Heat Exchangers and structural steel supports for traceability of qualifications and welding continuity.	Client	OSSQ	Hudson Products	6/15/2020		7/8/2020						NO	YES	
									7/15/2020		11/6/2020		OPEN			

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SR010-RPT-051		Kiewit provided National Grid with a data package to document current work as performed on the compressor building structural steel. The review identified (5) Welder Performance Qualification Records(WPQR) that were not signed by a qualified person at the time of welder testing rendering these records as non-compliant and the welders non-certified. AWS D1,1 Structural Welding Code - Steel requires qualified personnel to witness visual acceptance of the welds and visual acceptance of the destructive bend test. The welder I.D.'s are as follows: #7, #14, #15, #25, and #91.	Client	OSSQ	P/H NUCOR	6/16/2020		6/23/2020				8/14/2020	CLOSED	NO	
SR010-RPT-052		Kiewit Specification 102761-B-MEC-SPC-007 shows ASTM A182 fittings and flanges are allowed but Note (2) in the Fluid Limitation section states that material sourced from the Peoples Republic of China is not allowed for hazardous systems including but not limited for Fuel Gas,...etc. The Q-Sonic flow meter housing and various components show the material was manufactured in China as shown by the Material Test Reports.	Client	OSSQ	Aether	9/2/2020		11/20/2020			11/20/2020		OPEN	NO	NO
SR010-RPT-053	APCI Crossover Box Chinese Material	(1)APCI Line List shows line 2402 as a Nitrogen Service with a maximum design Pressure 1100 PSIG. (2) Kiewit's "pressure Containing Material Sourced from The PRC Specification" 102761-B-MEC-SPC-007 under the notes section, states "materials not specifically listed in this table are not allowed to be sourced from the PRC, unless specifically approved by the contractor" (3) The Specification only allows P8-Stainless Piing material under (500)PSIG) design pressure (higher pressure are not included for this material grade.)	Client	Construction	APCI	9/8/2020		11/20/2020			11/20/2020		OPEN	NO	NO
SR010-RPT-054	or Building Incorrect W	Patterson Horth/Nucor Drawings RXB010, RXB020, RXB030, RXB040, and RXB050 show a vertical gusset weld detail with a (3/16") fillet weld 2-6" staggered on both sides of the gusset. The weld out did not meet this requirement which resulted in a weld-out of 2-12" on each side of the gusset. The attached pictures show the actual weld which is not compliant with the shop drawing weld detail	Client	Construction	Patterson Horth	9/9/2020		11-Sep				10/8/2020	CLOSED	NO	YES
SR010-RPT-055	PDC Oil Temperature Gauge	Section 4.9 Units and Scale Ratio's of the Contract Scope of Work states " Weights and measures shall be in the English system and all instruments such as pressure gauges, thermometers, etc., shall be graduated in English units as the primary scale". The ABB Transformer's oil temperature gauge is calibrated in Celsius units.	Client	Construction	ABB	9/9/2020							OPEN	NO	YES
SR010-RPT-056	E/W Structural Steel Valve Access Platform	The East West Pipe Rack Structural Steel Erection Sequence document 102761-B-STR-MEM-7101 Rev 1 states in the Exclusion and deviation for erection up to 34 ft TOS EL (bullet item #2) The valve access platform to the south of column line A between column lines 6 & 7 shall not be erected at this stage. This exclusion is based on completion of the 31' level and having the pipe craft install the piping prior to installation of the access platform.	Client	Construction	Site	9/9/2020		10/22/2020					OPEN	NO	NO
SR010-RPT-057	Column A-1 on Compressor Building	Field construction attempted to install Column A-1 for the Compressor Building and were unable to complete the task because of rebar interference with the column key. The Field construction commenced cutting the interfering rebar with a Sawzall before receiving authorization from Engineering written approval prior to performing work.	Client	Construction	Site	9/10/2020						10/21/2020	CLOSED	NO	
SR010-RPT-058	Catch Basin Non-Compliant Fabrication	Catch Basin CB 107 was installed and found not to comply with project specifications resulting in the outlet opening being (1.8") higher than project requirements. This Discrepancy changes the systems invert elevation and has a potential impact on the overall storm water system operation.	Client	Construction	Site	9/10/2020							OPEN	NO	
SR010-RPT-059	Change of Design for Ground Grid at E/W Pipe Rack	Kiew submitted a red-line drawings (see attached) that will change the original grounding grid design around the E/W Pipe rack. The drawing and changes have not been released by Kiewit Engineering and a RFI supporting the changes has not been submitted to National Grid for review and approval.	Client	Construction	Site	9/11/2020		10/22/2020					OPEN	NO	YES

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SR010-RPT-060	Erection for N/S Pipe Rack	Prime Contract 4400005216 Scope of Work Section 4.12 Erection Procedure states " The Contrator shall submit copies of the erection procedure for all LNG facility equipment and systems to the Owner's representative for information prior to suck erection being carried out on the Work Site." National Grid requested a N/S Pipe Rack Erection Sequence and was told Kiewit did not have a final copy for distribution at the time. A period of several days transpired without a submittal of the procedure and kiewit continued to erect the N/S Pipe rack wich is in violation of the Contract as noted above.	Client	Construction	Site	9/18/2020		10/22/2020					OPEN	NO	NO
SR010-RPT-061	Equipment Erection Procedures	Prime Contract 440000521 Scope of Work Section 4.12 requires the Contractor to submit copies of the erection procedure for all LNG Facility equipment and systems to the owner's representative prior to such erection being carried out on the work site. Additional requirements are addressed in Section 3.21.2 which requires the Contractor to submit detailed method statements and risk assessments to be prepared and made available to the owner for review and comment at least one week in advance of the commencement of the related Work Site construction activities. Kiewit has placed several pieces of equipment of the project without submitting the required erection procedures.	Client	Construction	Site	10/9/2020							OPEN	NO	YES
SR010-RPT-062	Storage of Atlas Copco Booster Compressor	The Atlas Copco Equipment Preservation Plan for the Feed Gas Booster Compressor- L0309 requires in Section 5.3.2 that the equipment must be covered with a tarp or tent to shed to protect the equipment from the elements. There should be no standing water beneath the equipment and the tarp should not have direct contact with the equipment. The Booster Compressor was received on site and proper storage in accordance with the Compressor Preservation Plan was not in place upon receipt and has remained deficient as of this writing.	Client	Construction	Site	10/9/2020		11/20/2020				11/20/2020	OPEN	NO	NO