



February 1, 2021

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 January 2021

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 January 2021 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
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cc: Service List

MONTHLY STATUS REPORT FOR JANUARY 2021

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 January 2021.

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 January 2021:

- Training in the Environmental Inspector (“EI”) duties occurred nine (9) 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.
- UOP Pretreatment modules arrived in Port of Providence
- Receive and Set:
 - Hot Oil Equipment
 - 1st, 2nd, 3rd Stage N2 Compressor Air Cooled Heat Exchangers (ACHE)
 - Compander ACHE
- Continued with Pipe placement: N/S Rack, E/W Rack, Compressor Building, E/W N2 sleeper rack
- Continued installation of Cable Tray & Conduit along N/S and E/W Pipe Racks
- Continued Pulling Cable in area H
- Minor Concrete activities (Light pole foundations / housekeeping pads)
- Started preassembly of E/W Truss in the Laydown yard

Work Planned for February 2021:

- Set UOP Pretreatment modules
- Receive and Set:
 - Crossover Box
 - LN2 Vaporizer A & B
 - Truck Loading Pump Skid (Stage in Laydown Yard)
- Continue with Pipe Installation: N/S Rack, E/W Rack, Compressor Building, E/W N2 sleeper rack
- Finish punch-listing Structural Steel on N/S Rack, E/W Rack, Compressor Building
- Complete installation of Cable Tray along N/S and E/W Pipe Racks
- Continue Pulling Cable
- Complete preassembly of E/W Truss structural steel 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
01/06/2021	Minor sheen in secondary containment.	Absorbent pads used to remove sheen.	01/06/2021	Effective, secondary containment restored.
01/06/2021	Silt sack in CB 3 requires cleaning.	Silt sack cleaned.	01/07/2021	Effective, restored drainage of storm water.
01/12/2021	Replace/repair filtrex soxx on northern section of project.	Repaired filtrex soxx.	01/13/2021	Effective, restored effectiveness of erosion control.
01/15/2021	Replace filtrex soxx near SMA.	Repaired/replaced filtrex soxx.	01/21/2021	Effective, restored effectiveness of erosion control.
01/15/2021	Install erosion control blankets on sloped surfaces.	Not Complete as of date of this report.	N/A	Will be tracked in February Status Report.
01/15/2021	Place filtrex soxx on sides of sump.	Filtrex soxx added to area.	01/20/2021	Effective, erosion controls in place.
01/15/2021	Add crushed stone to truck loop.	Crushed stone added to truck loop.	01/20/2021	Effective, restored effectiveness of erosion control.
01/15/2021	Perform street sweeping on select asphalt surfaces.	Asphalt surfaces swept.	01/22/2021	Effective debris removed.
01/20/2021	Remove damaged filtrex soxx north of parking area.	Damaged filtrex soxx removed.	01/21/2021	Effective, debris removed.

Releases				
Date	Material and Quantity Released	Cause	Description	Corrective Action Taken
None during this time period.				

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.

<u>Yes</u>	No	See discrepancies noted in the attachments
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Special Inspector:	/s/ Charles Boisvert
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Date:	January 31, 2021
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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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-001	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	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	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	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	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	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	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	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	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-009	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
SR010-RPT-010	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	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	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	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	05/28/20	Vendor	Vendor
SR010-RPT-014r1	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-015 R2	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	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	11/13/20	Vendor	Procurement
SR010-RPT-017	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	Kiewit Site Specific Procurement Plan requires all contracts with risk level of 4 or 5 to conduct kick-off meetings upon execution of the contact.	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	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	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
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.	Proof rolling as described and shown meets the project requirements - M. Oakland Kiewit will be submits a Corrective Action with Preventive actions for procedural adherence - COB 4-3-2020	04/03/20	6/23/2020	Contractor	Construction

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
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.	Received supporting documentation	01/07/20	01/07/20	Contractor	Construction
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.	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	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	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
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.	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	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
SR010-RPT-028	Kiewit procedure 102761-B-QLT-PRO-0011 Corrective & Preventative Actions 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	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-030	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	<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	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	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-034	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
SR010-RPT-035	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	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	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-038	Section 2.25 Design and Engineering Work paragraph (f) of the contract states <i>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".</i> 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	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	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 over (8) months and as of this date the referenced procedure <i>102761-B-DMT-PRO-001 FPLP Document Control Procedure</i> has not fully addressed the Owner's comments as contractually required.	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	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
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 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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-043	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	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	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	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.	06/24/20	01/07/21	Procurement	Quality
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.	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

National Grid NON-CONFORMANCE REGISTER



Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
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.	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	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
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 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	07/15/20	Vendor	OSSQ
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.	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
SR10-RPT-052	Kiewit Specification 102761-B-MEC-SPC-0007 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 to Fuel Gas, Feed 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.	Remove and replace the flow meter with a Q-sonic flow meter with non-Chinese materials per the project specifications.	01/07/21	01/07/21	Vendor	OSSQ

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Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-053	(1) APCI Line List shows line 2402 as a Nitrogen Service with a maximum design pressure of 1100 PSIG. (2) Kiewit's "Pressure Containing Material Sourced from The People's Republic of China 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 People's Republic of China, unless specifically approved by the Contractor" (3) The Specification only allows P8-Stainless Steel Piping material under (500 psig) design pressure (higher pressures are not included for this material grade.)	Remove and replace the non-compliant material with non-Chinese material or a compliant project specific material which is acceptable	01/08/21	01/08/21	Vendor	OSSQ
SR010-RPT-054	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.	Additional welds will be required to meet the shop detail of (3/16") fillet 2-6 staggered weld. Galvanizing is required to be completely removed to bare metal a minimum of 2-3" from the weld area and after acceptance of the final weld the welded area shall be coated with a cold galvanizing component.	10/8/20	10/21/20	Vendor	OSSQ
SR010-RPT-055	Section 4.9 Units and Scale Ratio's of the Contract Scope of Wok 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.	Replace the non-compliant temperature monitors with the proper scale as per the contract requirements.	10/20/2020	Open	Vendor	OSSQ
SR010-RPT-056	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.	A root cause analysis was performed and a Corrective Action Report detailing the plan to prevent recurrence has been developed. Please see CAR 003 for details of the cause and corrective actions to be implemented to prevent recurrence. The CAR will stay open until the corrective actions prove effective.	01/07/21	01/07/21	Contractor	Construction
SR010-RPT-057	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 to perform this task. See picture below. Changes made to design require Engineering written approval prior to performing work.	Engineering is to evaluate the cut rebar and determine if corrective action is required. Kiewit to perform a Root Cause Analysis to investigate the continuing action of performing work without written authorization and submit to National Grid for review and approval.	10/21/20	10/21/20	Contractor	Construction
SR010-RPT-058	Catch Basin CB107 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 system invert elevation and has a potential impact on the overall storm water system operation. .	Kiewit is to remove and replace CB107 with a compliant catch basin or provide an Engineering corrective action that will meet the project invert elevation requirements on the outlet piping. Any repairs or modifications to the existing catch basin CB107 or related piping will require National Grid's review and approval.	Open	Open	Contractor	Construction

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Project #: 90000130901

Project Name: Field Point Liquefaction Project Providence, RI

NCR Ref:	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause	Discipline
SR010-RPT-059	Kiewit 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.	Kiewit Engineering shall review the proposed changes and submit a RFI to National Grid for review with proposed red-line drawing showing the necessary changes to be made.	Open	Open	Contractor	Construction
SR010-RPT-060	Prime Contract 4400005216 Scope of Work Section 4.12 Erection Procedure states "The Contractor shall submit copies of the erection procedure for all LNG Facility equipment and systems to the Owner's Representative for information prior to such 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 which is in violation of the Contract as noted above.	Kiewit is to follow the Contract requirements as listed in Section 4.12 and Section 3.21.2 by providing detailed method stated and risk assessments to Nation Grid at least one week in advance of the construction activities. These method statements shall be required for erection of all LNG Facility Equipment and systems as noted in Section 4.12	Open	Open	Contractor	Construction
SR010-RPT-061	Prime Contract 4400005216 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 on the project without submitting the required erection procedures.	Kiewit is to follow the Contract requirements as listed in Section 4.12 and Section 3.21.2 by providing detailed method stated and risk assessments to Nation Grid at least one week in advance of the construction activities. These method statements shall be required for erection of all LNG Facility Equipment and systems as noted in Section 4.12	Open	Open	Contractor	Construction
SR010-RPT-062	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.	Follow the complete set of requirements for the storage of the Booster Compressor as noted in the Lay-Up Plan for the L-0309 Compressor. Hold a pre-activity meeting within a week of equipment arrival to cover requirements for the initial inspection, preservation and rigging/setting plan. Built Tent per section 5.3.2 of the ACC preservation requirements. Compressor was set on 10/7/2020; Covered with temp tarp on 10/8/2020; semi permanent scaffold and cover completed on 10/10/2020.	12/03/20	12/07/20	Contractor	Construction

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity
0001	Concrete Driven Pile DP-13 out of tolerance.	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'	N/A	Kiewit						Use-As-Is	EOR approval for out of tolerance per specification	No action to be taken	5/28/2019		6/26/2019	N/A	N/A	6/26/2019		6/26/2019		CLOSED	NO	
0002	Damaged Concrete Driven Pile DP-70	Damage to upper concrete driven pile DP-70 during pile driving activities, damage is just above the Emax splice plate, resulting in exposed rebar and a 2' crack protruding up the south east side of the column, extending from the break.	A single additional pile must be driven adjacent to this pile. The pile(new) may be driven on any side based on access. Spacing to damaged pile may be as close as 28 inches.	Kiewit						Rework or Scrap	EOR to determine action to be taken per specification 102761-B-STR-SPC-0006 section 4.5.4.1.12	EOR to notify Quality of resolution	6/6/2019	6/25/2019	8/13/2019	N/A	N/A	8/13/2019		8/13/2019		CLOSED	NO	
0003	Driven Pile DP-113 Exceeding plumbness tolerance	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 1.307" in 4' equating to 2.86% or .86% out of tolerance.	N/A	Kiewit						Rework	Rejected piles shall be corrected as directed by the engineer of record.		6/11/2019	6/25/2019	6/26/2019	N/A	N/A	6/26/2019		6/26/2019		CLOSED	NO	
0004	GCAW Regeneration Gas Separator LDD-1011	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 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Would like to be present at the commencement of painting	Kiewit	OSSQ					Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/13/2019	6/14/2019	N/A	N/A	6/14/2019	6/15/2020	7/8/2020	7/8/2020	NCR will remain open until equipment is re-painted.	CLOSED	NO
0005	GCA Adsorber L-1000A	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.	Would like to be present at the commencement of painting	Kiewit	OSSQ	UOP				Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/13/2019	6/14/2019	N/A	N/A	6/14/2019	6/15/2020	9/28/2020	9/30/2020	NCR will remain open until equipment is re-painted. 7/15 - PAULT COMPLETE/ COATING TO BE COMPLETED BY 7/31. 7/25 -CHC need 10 day notification for start of paint, may start 7/31 finish week of 8/10 8/1 - CHC Coating to start 8/24 with a (14) day coating cycle planned. Scheduled to complete 9/4 8/8 CHC Coating SNF received from UOP and sent to NG. Coating to start Monday 8/24 and be completed by Monday 8/31. 8/15 CHC No Further Update 8/22 CHC - Do to a Tropical Storm scheduled to impact Houston, Coating is being rescheduled to start on 8/31 8/30 CHC Confirmed start date for coatings is 8/31 8/16 CHC Final Inspection Coating 8/16 CHC Final Inspection Coating Accepted - Requested Coating Reports from Inspector Ruben Salazar to close out the NCR 8/26 CHC Final Inspection Coating Reports have been issued to Close out NCR	CLOSED	NO
0006	Absorber L-1000B	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.	Would like to be present at the commencement of painting	Kiewit	OSSQ	UOP				Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/13/2019	6/14/2019	N/A	N/A	6/14/2019	6/15/2020	9/28/2020	9/30/2020	NCR will remain open until equipment is re-painted. 7/15 - PAULT COMPLETE/ COATING TO BE COMPLETED BY 7/31. 7/25 -CHC need 10 day notification for start of paint, may start 7/31 finish week of 8/10 7/29 EMR start 8/12 finish 8/21 approx. 8/1 - CHC Coating to start 8/24 with a (14) day coating cycle planned. Scheduled to complete 9/4 8/8 CHC Coating SNF received from UOP and sent to NG. Coating to start Monday 8/24 and be completed by Monday 8/31. 8/15 CHC No Further Update 8/22 CHC - Do to a Tropical Storm scheduled to impact Houston, Coating is being rescheduled to start on 8/31 8/30 CHC Confirmed start date for coatings is 8/31 8/16 CHC Final Inspection Coating 8/16 CHC Final Inspection Coating Accepted - Requested Coating Reports from Inspector Ruben Salazar to close out the NCR 8/26 CHC Final Inspection Coating Reports have been issued to Close out NCR	CLOSED	NO
0007	Absorber L-1000C	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.	Would like to be present at the commencement of painting	Kiewit	OSSQ	UOP				Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/13/2019	6/14/2019	N/A	N/A	6/14/2019	6/15/2020	9/28/2020	9/30/2020	NCR will remain open until equipment is re-painted. 7/15 - PAULT COMPLETE/ COATING TO BE COMPLETED BY 7/31. 7/25 -CHC need 10 day notification for start of paint, may start 7/31 finish week of 8/10 7/29 EMR start 8/12 finish 8/21 approx. 8/1 - CHC Coating to start 8/24 with a (14) day coating cycle planned. Scheduled to complete 9/4 8/8 CHC Coating SNF received from UOP and sent to NG. Coating to start Monday 8/24 and be completed by Monday 8/31. 8/15 CHC No Further Update 8/22 CHC - Do to a Tropical Storm scheduled to impact Houston, Coating is being rescheduled to start on 8/31 8/30 CHC Confirmed start date for coatings is 8/31 8/16 CHC Final Inspection Coating 8/16 CHC Final Inspection Coating Accepted - Requested Coating Reports from Inspector Ruben Salazar to close out the NCR 8/26 CHC Final Inspection Coating Reports have been issued to Close out NCR	CLOSED	NO
0008	Particle Filter LDS - 1010 A	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.	Rejected / Does not agree with the disposition Re-coating will be performed to allow NDE to be reworked. Re-coating shall be performed as per 102761-B-MEC-SPC-0069 AND 0070	Kiewit	OSSQ	UOP			Pre-treatment Skid	Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/22/2019	1/29/2020	1/29/2020			1/29/2020	5/15/2020	7/8/2020	7/8/2020	NCR will remain open until equipment is re-painted	CLOSED	NO
0009	Particle Filter LDS - 1010 B	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.	Rejected / Does not agree with the disposition Re-coating will be performed to allow NDE to be reworked. Re-coating shall be performed as per 102761-B-MEC-SPC-0069 AND 0070	Kiewit	OSSQ	UOP			Pre-treatment Skid	Rework	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/22/2019	1/29/2020	1/29/2020			1/29/2020	5/15/2020	7/8/2020	7/8/2020	NCR will remain open until equipment is re-painted	CLOSED	NO
0010	Pressure Testing to NFPA 59A 2001 Edition 7	Failure to meet pressure testing requirements as outlined in specification NFPA 59A 2001 Edition	See Disposition & Required Actions	Kiewit						Rework	Testing plan shall be developed to provide re-testing at Barnhart Hake facility including pressure testing procedure to require 1.25 X MAWP, equipment mobilization manpower and safety plan and PPE to be used. See attached letter and instructions.	To be provided by APCI	6/18/2019	5/21/2020	6/18/2019			6/18/2019	6/5/2020	5/29/2020	5/29/2020	NCR will remain open until re-testing is completed and documentation has been received and reviewed.	CLOSED	NO
0011	APCI Care and Preservation	Companders K-The equipment maintenance and preservation for the Companders TCS-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	See Disposition & Required Actions	Kiewit	OSSQ	APCI			Cold Box? Compander Skid	Rework	Consultation with equipment manufacturer and owner to determine inspection steps that would identify any potential equipment damage. 1. New preservation procedure is to be submitted for both off-site and on-site storage encompassing requirements through commissioning. 2. Quarterly preservation inspections of all identified equipment must be performed and report submitted to Kiewit and National Grid.	Follow Written procedures	6/19/2019		2/7/2020			2/12/2020	5/31/2020	6/24/2020	7/1/2020	NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.	CLOSED	NO
0012	APCI Care and Preservation	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.	See Disposition & Required Actions	Kiewit	OSSQ	APCI			N2 Compressor Skid	Rework	Consultation with equipment manufacturer and owner to determine inspection steps that would identify any potential equipment damage. 1. New preservation procedure is to be submitted for both off-site and on-site storage encompassing requirements through commissioning. 2. Atlas Copco needs to provide Technician to site to evaluate compressor condition and compliance to proper preservation procedures. 3. Quarterly preservation inspections of all identified equipment must be performed and report submitted to Kiewit and National Grid.	Follow Written procedures	6/19/2019		2/7/2020			2/12/2020		6/24/2020	6/24/2020	NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.	CLOSED	NO
0013	APCI Care and Preservation	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	See Disposition & Required Actions	Kiewit	OSSQ	APCI			Alrogen Lube Oil Cooler 1CS-E137 Compander Lube Oil 1CS-E10	Rework	Consultation with equipment manufacturer and owner to determine inspection steps that would identify any potential equipment damage. 1. New preservation procedure is to be submitted for both off-site and on-site storage encompassing requirements through commissioning. 2. Quarterly preservation inspections of all identified equipment must be performed and report submitted to Kiewit and National Grid.	Follow Written procedures	6/19/2019		2/7/2020			2/12/2020	5/15/2020	6/24/2020	7/1/2020	NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.	CLOSED	NO
0014	voids in two concrete driven piles	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.	See Disposition & Required Actions	Kiewit						Repair	Repair to Standard - Recommend using Sikadur 42, Grou-pak PL per manufactures recommendations to fill voids.	Kiewit's Concrete Engineer is communicating to Oldcastle (Supplier) to remedy the cause and ensure voids don't occur again. Oldcastle will be doing a training with their staff.	8/27/2019	9/10/2019	9/10/2019	N/A	N/A	9/10/2019		9/11/2019		CLOSED	NO	
0015	Stabilization wall area A east	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.	See Disposition & Required Actions	Kiewit						Scrap	Drive another pile within 28" (center to center) in any direction of the pile that cracked.	Unknown. We believe it was a flaw with the concrete that was not visible to the naked eye.	6/27/2019	7/5/2019	7/8/2019	N/A	N/A	7/8/2019		7/8/2019		CLOSED	NO	
0016	Driven Pile Location Group 1 Stabilization Wall West Side	14' Pre-Cast Pile were out 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.	N/A	Kiewit						Use-As-Is	Propose when performing the back filling and installing the Tensar wall that we do one 12 inch lift, one 9 inch lift and one 6 inch lift this would bring us back to design elevation.	To prevent from recurrence Control Point (3rd party surveyor) are shooting in bench marks then by using a laser level laying out the cut lines. If air test fails initially, take new sample and re-perform air content test. If test fails for second time, truck will be rejected.	7/10/2019		7/15/2019	N/A	N/A	7/15/2019		9/11/2019		CLOSED	NO	
0017	Dust Bank Failed Air Content	Air Content was observed as being 3.3% per the required 4.5%-7.5%. Resulting in failure per the mix design.	N/A	Kiewit	Engineering					Use-As-Is	Request EOR evaluation and / or approval. Speak with concrete supplier about air content concerns.		9/30/2019	3/19/2020	3/20/2020			7/8/2020		6/22/2020	7/8/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.	CLOSED	NO

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
0018	Duct Bank Filled Air Content	Air Content was observed as being 4.0% per the required 4.5%-7.5%. Resulting in failure per the mix design.	N/A	Kiewit	Engineering					Use-As-Is	Request EOR evaluation and / or approval. Speak with concrete supplier about air content concerns.	If air test fails initially, take new sample and re-perform air content test. If test fails for second time, truck will be rejected.	9/30/2019	3/19/2020	3/20/2020			7/29/2020	6/22/2020	7/29/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time. CLIENT DIDNT AGREE ON DISPOSITION. KIEWIT DOESNT AGREE WITH THE REJECTION OF DISPOSITION. WORK WITH RICHIE FOR REWRITE. CAMERON TO GET DENNIS TO GET FEEDBACK 7/17 7/22 EMR NCR disposition was rewritten - DO WE NEED to update signature???? 7/29 EMR we need to send to NG for disposition re write review. New signatures are not required.	CLOSED	NO		
0019	UOP/QCAW Volumetric Examination	On September 17th 2019 a quality document and NDE review was performed at QCAW 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, ICI placement and identification, etc. Reader sheets / Reports were found to not meet minimum requirements as per ASME Sec. V	See Disposition & Required Actions	Kiewit	OSSQ	UOP		E		Rework to Acceptable Standard	Volumetric examination to be performed in conformance with code and contractual requirements 1. NDE must be re-performed in compliance to the contract specification. 2. NDE procedures and operator qualifications must be submitted for review. 3. This rework will take place after blasting and before recasting of vessels. Kiewit and National Grid will be in attendance for first operation.	Proper NDE review must be performed by supplier to assure conformance of sub-vendor to code and contractual requirements. OSSQ oversight of proper film and documentation reviews performed during in-process inspections.	9/30/2019	7/22/2020	7/22/2020	NOWP 11/21/2019		7/30/2020	7/29/2020	9/9/2020	Need OSSQ to work with Vendor and Authorized Inspector to provide documentation as required by codes of construction. If there are welds in question are not subject to these requirements (Info Shots) then that needs to be part of the explanation. 7/22 EMR - Engineering approved disposition needs to be sent to NG for disposition review 7/29 sent to NG with reports for disposition and closure. 7/29 8/15 CHC - Awaiting Response from National Grid 8/26 CHC Awaiting response from National Grid	CLOSED	NO		
0020 R1	Rejected Fill	Fill materials were brought on-site from the PJ Keating quarry. It was discovered after dumping the load the 1/2" dense grade material was unapproved and would not meet the standards for FPLP.	See Disposition & Required Actions	Kiewit						Scrap	Kiewit to take another test sample from the stock pile at PJ Keating as well as witness an in-process sieve analysis in conjunction with National Grid's Special Inspector. If material is deemed unsuitable for use the stock piles shall be separated to prevent another delivery of unsuitable fill.	Action to prevent recurrence: Kiewit has communicated to the vendor that any new materials not previously tested and approved from PJ Keating's stock pile to the project, shall be tested and approved before use. Kiewit will be conducting random visits at PJ Keating's Quarry.	10/8/2019	1/13/2020	11/23/2019		1/13/2020		1/13/2020						
0021	16" Pile Cutoff	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.	N/A	Kiewit						Use-As-Is	All pile cutoffs halted until survey marks pile cutoff elevations in front of pile cutting crew and per RFI-000076, attached.	Action to prevent recurrence: Have survey crew mark each individual pile then tie with green flagging around piling signifying pile cutoff elevations were marked before commencing cutting of pile.	10/15/2019	1/8/2020	11/23/2019		1/10/2020		1/10/2020						
0022	Pile Tension Connector Sleeve (DP-D)	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"	N/A	Kiewit						Use-As-Is	Engineering to provide recommendation and path forward.	The lack of support templates being used during fabrication. Kiewit has advised the fabricator of the findings and advised them of the need for additional support. Kiewit will also be performing a shop visit to ensure the fabricator has addressed the issue.	10/16/2019	1/8/2020	1/8/2020		1/16/2020	5/8/2020	5/27/2020	5/27/2020	This NCR should be ready to close. Tommy H./Jason R. to Gasher revised engineering documents to facilitate closure of NCR and present to NG week of 3/16/2020. Waiting to receive updated Drawings from Eng. 4/14/2020	CLOSED	NO		
0023	Duct Bank Underground Utility Warning Tape	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."	N/A	Kiewit	Engineering					Use-As-Is	Discontinue using the currently installed 3" wide utility warning tape and use the required 6" wide tape specified in the 102761-B-CIV-SPC-0001 installed.	Ensure all specifications are reviewed and cross referenced as necessary by all involved. Make sure any questions are answered before material is installed.	10/22/2019	1/22/2020	1/22/2020		1/23/2020		1/23/2020						
0024	Delivery of Non-Conforming 1-1/2 Dense Grade Fill Material	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	See Disposition & Required Actions	Kiewit						Scrap	Non-conforming material was rejected and returned. Kiewit and National Grids Quality Manager conducted an off-site visit at P.J. Keating to further assess the stockpile of the material.	Deliveries will continue to be monitored and P.J. Keating is to clearly segregate Kiewit's approved stockpile from any other new materials.	10/24/2019	1/14/2020	1/14/2020		1/14/2020		1/14/2020		1/14/2020				
0025	Air Cooled Heat Exchanger	Atlas Copco Air Cooled Heat Exchanger was pressure tested to 1.3 instead of the 1.5 required	1. Re-testing will be performed at 1.5 x 1.5 MWP. Kiewit and National Grid will be in attendance for testing.	Kiewit						Rework	Retest Heat Exchanger to correct Pressure	Verify the supplier follows test requirements	11/1/2019	1/10/2020	1/10/2020		1/14/2020		1/14/2020		1/14/2020				
0026	LDE 1021 A/B Gas Heaters	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	1. New preservation procedure shall be submitted and approved. Inspections will be conducted weekly and documented. Inspection documentation will be submitted monthly. 2. 100% Internal VT will be performed at time of re-work. borescope will be required where applicable. ITP shall be submitted by UOP/Taylor Forge including VT hold point and final inspection of vessels before shipment.	Kiewit	OSSQ	UOP		E		Pretreatment Skid	The supplier will maintain a record of inspection starting September 2019. The heater will be internally inspected for condition and documented. The inspection will be insured via the hold point from the ITP.		11/1/2019	1/10/2020	1/10/2020		1/14/2020	6/24/2020	6/24/2020	7/1/2020	Submitted for closure to NG with UOP signoff or their NCR	CLOSED	NO		
0027	Temperature of Concrete	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.	Ask EOR to review and accept concrete as-is.	Kiewit	Engineering					Use-As-Is	Fenagh testing agency was unprepared, no checks to verify equipment was on-site, and concrete trucks were not rejected when all testing was not completed.	Action to prevent recurrence: Kiewit to inspect Fenagh's testing equipment prior to each test to verify all equipment is on-site before testing is performed. Regroup the team and discuss stop work authority. Fenagh to review their procedures internally with all technicians.	11/5/2019	3/19/2020	3/1/2020		3/27/2020		3/27/2020						
0028	Pile Cut Off Below Proposed Elevation	During the cutting operation of concrete piles, survey (A-Plus) reported pile 5953-L-DP-09 was cut-off approximately 8ft 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.	Abandon driven pile 5953-L-DP-09 and replace with Micropile(s) per direction of EOR.	Kiewit						Scrap	Pile cut short had been marked by survey, verified cut-off location approximately 8ft in the air. Slurry from adjacent pile cutting may have obscured the pile cut off mark.	Using pilerunner at motocut finalizing alignment prior to proceeding with cut. Survey will be verifying height same day as cut. No more 'preliminary' cuts, remaining cuts are at final height.	11/8/2019	1/10/2020	11/23/2019		1/21/2020	5/15/2020	3/9/2020						
0029	Centerbars Out of Tolerance	After grouting operations were completed on micropiles 5850-CMP-08 & 5850-CMP-29 centerbars being placed ended up leaning to an out-of-tolerance location horizontally within the casing.	N/A	Kiewit	Engineering					Use-As-Is	After grouting, the centerbar generally extends from the ground surface to the soils at the pile tip. However, since approximately 25 to 30 feet of casing has been pulled, the casing does not extend to the bottom of the hole, but is held in place by skin friction in what is generally considered to be the unbonded zone. To prevent the casing from dropping back down the hole until the grout is set and can support it, a temporary pile cap is connected from the centerbar to the casing to hold the casing in place until initial set of the grout has occurred. For the piles identified, either due to accidental and undetected shifting the top of the centerbar during the connection of the temporary cap or after the cap has placed and the pile is no longer being monitored (due to loads imposed by the casing), the location of the center bar shifted.	Fabricate wooden templates to ensure center bar is centrally located within tolerance of micropile casing / In addition, we have developed a method of wiring the rod in the center using the holes in temporary casing that holds the casing. Either method is anticipated to eliminate this problem. We will also measure the annular distance between the bar and the casing.	12/2/2019	3/19/2020	3/20/2020		7/22/2020	5/15/2020	7/24/2020	KOE currently reviewing issue and will provide proposed disposition no later than 3/26/2020. 7/22 EMR sent to NG for disposition review 7/29 EMR Quality needs to sign and close 7/29	CLOSED	NO			
0030	Area D Driven Piles Out of Tolerance	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.	The two (2) out-of-tolerance piles (5900-D-DP-01) and 5900-D-DP-06 to NOT have to be rejected/scrapped and shall be used as installed. The drawing PRL-NG-Overseas Trench FDN Loc Plan & Secs' dwg No. 102761-B-00-0000-STR-SF-6006 will be modified accordingly to accommodate this non-conformance.	Kiewit	Engineering					Disposition and Action to be taken per engineering's recommendation and path forward.	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/13/2020	2/18/2020		2/27/2020		3/9/2020						
0031	Area D Driven Piles Out of Tolerance	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-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.	The 19 out of tolerance and out of plumb piles 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-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) do NOT need to be rejected/scrapped and shall be used as installed since the As-Built piles do not affect the allowable lateral and vertical capacities of the piles.	Kiewit	Engineering					Disposition and Action to be taken per engineering's recommendation and path forward.	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/23/2020	3/27/2020		3/27/2020		3/27/2020						
0032	Area F Driven Piles Out of Tolerance	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) do NOT have to be rejected/scrapped and shall be used as installed. Pile 5620-F-DP-31 has been abandoned as per RFI 79.	The six (6) 95620-F-DP-05, 5620-F-DP-12, 5620-F-DP-21, 5620-F-DP-24, 5620-F-DP-27, 5620-F-DP-28) do NOT have to be rejected/scrapped and shall be used as installed. Pile 5620-F-DP-31 has been abandoned as per RFI 79.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/18/2020	3/19/2020		6/16/2020	4/17/2020	4/14/2020	6/16/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time. Submitted to NG 3/18/2020	CLOSED	NO		
0033	Area F Driven Piles Not Meeting Driving Criteria per 25t Embedment	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 25t embedment.	N/A	Kiewit						Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	1/21/2020	1/21/2020		1/21/2020		1/21/2020						
0034	Area F Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced one (1) pile (5640-F-DP-03) out of tolerance.	The out-of-tolerance pile 5640-F-DP-03 does NOT have to be scrapped/rejected and shall be used as installed. The drawing 'Compressor Lube Oil Cooler Piling Location Plan' dwg No. 102761-00-0000-STR-5640 rev1 updated 09-25-19 represents the latest piling location plan.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/23/2020	3/19/2020		3/27/2020		3/27/2020						

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
0035	Area G Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced five (5) piles (5560-G-DP-01; 5560-G-DP-02; 5560-G-DP-04B; 5560-G-DP-05B; & 5560-G-DP-09) out of tolerance.	The five (5) out-of-tolerance piles 5560-G-DP-01; 5560-G-DP-02; 5560-G-DP-04B; 5560-G-DP-05B; & 5560-G-DP-09 do NOT have to be rejected/scrapped and shall be used as installed. The Drawing "Hot Oil System Piping Location Plan" dwg 102761-B-00-0000-STR-SF-5560 rev 2 dated 02-14-20 represents the latest piling location plan.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/18/2020	3/19/2020			6/16/2020	4/17/2020	4/14/2020	6/16/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time. Submitted to NG 3/18/2020	CLOSED	NO	
0036	Area I Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced one (1) pile (5980-I-DP-09) out of tolerance.	The one (1) out-of-tolerance pile 5980-I-DP-09 does NOT have to be rejected/scrapped and shall be used as installed. The drawing "N2 Storage ASUPP Sleepers Piling Location Plan" dwg No. 102761-B-00-0000-STR-5980 rev1 and "N2 Storage SUPP Sleepers Fdn Plan & Sects" dwg No. 102761-B-00-0000-STR-SF-5985 rev1 dated 1-21-20 have been modified accordingly to accommodate the non-conformance.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/23/2020	3/20/2020			6/16/2020	4/17/2020	4/14/2020	6/16/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.	CLOSED	NO	
0037	Area L Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced two (2) piles (5952-L-DP-03 & 5952-L-DP-09) out of tolerance.	The two (2) out-of-tolerance piles 5952-L-DP-03 & 5952-L-DP-09 do NOT have to be rejected/scrapped and shall be used as installed. The drawing "UG SUPP Foundation Location Plan & Sects" dwg No. 102761-B-00-0000-STR-SF-5956 will be modified accordingly to accommodate this non-conformance.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/13/2020	2/18/2020			2/27/2020			3/10/2020		CLOSED	NO	
0038	Area L driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced two (2) piles (5953-L-DP-19 & 5953-L-DP-21) out of tolerance.	Based on the "Reference Documentation" in the title block above, the out-of-tolerance piles should be 5953-L-DP-19 and 5953-L-DP-21. The two (2) out of tolerance piles 5953-L-DP-19 and 5953-L-DP-21 do NOT have to be rejected/scrapped and shall be used as installed. The drawing "UG SUPP Foundation Location Plan, Details & Sects" Dwg No.'s 102761-B-00-0000-STR-SF-5957 and ST-5956 will be modified accordingly to accommodate this non-conformance.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/13/2020	2/18/2020			2/27/2020	4/17/2020	4/14/2020	5/27/2020	This NCR should be ready to close. Tommy H./Jason R. to Gather revised engineering documents to facilitate closure of NCR and present to NG week of 3/16/2020.	CLOSED	NO	
0039	Area L Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced one (1) pile (5951-L-DP-14) out of tolerance.	The one (1) out-of-tolerance pile 5951-L-DP-14 does NOT have to be rejected/scrapped and shall be used as installed. The drawings "UG SUPP FDN Piling Location Plan, Det. Sect" dwg No. 102761-B-00-0000-STR-S951 rev2 dated 1-17-20, "UG SUPP Fdn Location Plan, Det's & Sects" dwg No. 102761-B-00-0000-STR-SF-5955 rev2 dated 1-18-20 have been modified accordingly to accommodate this non-conformance.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/23/2020	3/20/2020			6/8/2020	4/17/2020	4/14/2020	6/8/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.	CLOSED	NO	
0040	Area M Driven Piles Out of Tolerance	During driving of concrete piles obstructions were encountered and forced two (2) piles (5870-M-DP-03 & 5870-M-DP-09) out of tolerance.	The two (2) out-of-tolerance piles 5870-M-DP-03 and 5870-M-DP-09 do NOT have to be rejected/scrapped and shall be used as installed. In this case ONLY, the out-of-tolerance installation of the piles did not affect the edge distance, center-to-center spacing between piles, and did not affect the capacity, thereby no changes are required to the foundation design calculations and drawings.	Kiewit	Engineering					Reject/Scrap OR Use-As-Is	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/13/2020	2/18/2020			2/20/2020			2/20/2020		CLOSED	NO	
0041	Pile Tension Connector Sleeves	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. Note 6 has a tolerance of +1/8"	N/A	Kiewit						Use-As-Is	Engineering to provide recommendation and path forward.	The lack of support templates being used during fabrication. Kiewit has advised the fabricator of the findings and advised them of the need for additional support. Kiewit will also be performing a shop visit to ensure the fabricator has addressed the issue.	10/16/2019	1/8/2020	1/8/2020			1/16/2020	5/15/2020	5/27/2020	5/27/2020	This NCR should be ready to close. Tommy H./Jason R. to Gather revised engineering documents to facilitate closure of NCR and present to NG week of 3/16/2020. Waiting to receive updated Drawings from Eng. 4/14/2020	CLOSED	NO	
0042	Additional Dept Drilled on 5870-M-MP-03	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.	N/A	Kiewit	Engineering					Use-As-Is	Started drilling micropile 5870-M-MP-03 on 12/31/19. The piles in Area M were all drilled with 100.7' of casing, some with different sequencing in order to utilize all the casing available on site. The previous two holes had been drilled with the same sequencing and 5870-M-MP-03 was supposed to be drilled with the same sequencing. In order to use the casing already available at the drilling location, a 10' casing was used where a 5' casing had been used on the previous two shafts. The shaft was drilled 55' when operations ceased for the holiday and resumed two days later on 1/22/20. When operations resumed, the sequence of casings was continued as if there was a 5' casing in the spot where there was actually a 10' casing, therefore resulting in an additional 5' being drilled.	Following a long weekend holiday, tool-box talks will be conducted with craft during their morning stretch and flex activities prior to starting work.	1/8/2020	2/6/2020	2/7/2020			2/12/2020			3/9/2020		CLOSED	NO	
0043	Recommendation vs Resolution	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.	N/A	Kiewit	Engineering					Use-As-Is	Based on the daily report for Dec 17th and subsequent conversations with on-site personnel, micropile 5870-M-MP-07 was drilled 5 additional feet after being left at depth for 6 days. Approximately 6.5 feet of sand was encountered at the bottom of the casing after drilling, which is in line with other piles installed in this area. The total grout volume for the pile was 127% of the theoretical volume, which is in line with where we would expect it to be. The installation of pile 5870-M-MP-07 is acceptable.	Action to prevent recurrence: Construction shall not proceed with an issue without some written form of documentation.	1/31/2020	1/31/2020	1/31/2020			2/3/2020			3/11/2020		CLOSED	NO	
0044	Damage to Duct Bank #5	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.	See Disposition & Required Actions	Kiewit	Construction					Repair to standard	Kiewit will demo the concrete around the conduit to expose the conduit which was damaged area will be replaced. Then the concrete for the damaged area of Duct Bank #5 will be re-poured.	Cause: Area was not laying out Duct Bank #5 from the as-builts for the crew to have a visual of the edge of the duct bank. Prevention: #1 New Ground Disturbance permit for all operations that disturb the ground, #2 Existing and installed utilities will be clearly marked before digging, #3 Permanently installed work will be protected so no damage occurs	3/20/2020	6/17/2020	3/24/2020			6/26/2020		6/26/2020	6/26/2020	NG requesting a RCA to be performed for the safety factor	CLOSED	NO	
0045	5871-D-MP-02 out of 3" tolerance.	Micropile 5871-D-MP-02 was found during as-builts to be drilled out of tolerance	N/A	Kiewit	Construction					Use-As-Is	Crew will use 2 spotters when relocating the rig to ensure pin locations are not impacted. Survey crew will verify pin locations if any ground movement or other impacts are identified.	moving to 2 spotters to watch rig so we don't push pins and final verification by Superintendent of drill box location before drilling.	4/14/2020	5/11/2020	5/11/2020			5/28/2020	5/15/2020	5/11/2020	6/17/2020		CLOSED	NO	
0046	5570-B-MP-35 and 5570-B-MP-37 out of tolerance 3"	Micropile 5570-B-MP-35 and 5570-B-MP-37 was found during as-builts to be drilled out of tolerance	N/A	Kiewit	Construction					Use-As-Is	Crew will use 2 spotters when relocating the rig to ensure pin locations are not impacted. Survey crew will verify pin locations if any ground movement or other impacts are identified.	moving to 2 spotters to watch rig so we don't push pins. Utilizing survey even more often to verify nothing has been moved and if it has it is corrected and final verification by superintendent of drill box before drilling.	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 Backfill	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.	RFI-000153 was not thoroughly reviewed prior to selecting backfill. RFI-000153 was approved specifying the use of CLSM to backfill UG foundations at 70%, but did not mention structural backfill.	Kiewit	Construction					Use-As-Is	Construction to submit a revision to RFI-000153 clarifying that both CLSM and structural backfill may be used to backfill to top of concrete at 70% concrete compressive strength.	Audit of field work packages to ensure all applicable RFIs are included. Field staff and foremen to review all RFIs applicable to their scope of work.	6/3/2020	6/5/2020	6/5/2020			6/5/2020		6/5/2020	6/24/2020		CLOSED	NO	
0048	Unconsolidated Concrete on PDC Pedestals	After removal of the forms for the PDC column pedestals it was found that there was areas of concrete that wasn't completely consolidated	Engineer develop a repair procedure. Which includes the removal of unconsolidated material and place back with an approved Grout/ Concrete Product.	Kiewit	Construction					Repair to standard	Lack of training on use of external vibrators, initial plan did not address weight of Embeds, Material receiving process, Clash between anchor bolts and siting of the PDC not discovered till 4 weeks prior to pour & Order embeds prior to final design.	Training on new tool. Through workplan review. Workplans developed in advance of start of work (goal 8 weeks), RE-Train on Material Receiving process & RFIs to be published to the field workplans audited for RFIs and Current Drawings.	6/3/2020	7/1/2020	7/1/2020			7/8/2020		7/8/2020	7/29/2020	7/29/2020	7/29 need to send out. 7/22 EMR Supplemental Steel Erection Must Be complete to close NCR.	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					Use-As-Is	Review for acceptance and use-as-is with after-the fact welder qualification.		6/20/2020	7/1/2020	7/1/2020			7/8/2020		10/21/2020		CLOSED	NO		

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity			
0050	Misplacement of On-Site Reusable Fill Materials	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.	Limits of the roadway are to be laid out and verified by survey so that the areas needing structural fill can be clearly marked. Only structural fill material will be placed underneath this roadway section which is in line with the Civil Earthwork Specification, Sec 4.12 of the earthwork spec. Only Structural Fill shall be placed under concrete mat foundations, pile caps, spread footings, vaults, other shallow foundations, and paved areas.	Kiewit	Construction					Repair to standard	The limits of the road where not marked out prior to placement of fill materials. Due to the mass quantity of fill needed to bring the area up to finish grade, both underneath the roadway section and the surrounding areas, a bulldozer was used to push material and place an approx. 1 ft lift of on-site reusable fill. Since the roadway limits were not clearly marked, there is concern that on-site reusable fill materials were incorrectly placed beneath the roadway.	Action to prevent recurrence includes the initial layout of areas needing only structural fill prior to the placement of on-site reusable fill.	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.	See Disposition & Required Actions	Kiewit	OSSQ	APCI				Rework	Re-fabricate		6/30/2020	7/8/2020	7/22/2020			7/23/2020		1/7/2021	1/7/2021	8/26 CHC - No further update 8/19 CHC APCI continues to work with Chart on the re-fabrication of the Heat Exchangers to be incorporated into the Cold Boxes. APCI to provide Kiewit a Witness Point Schedule by COB 8/25 8/26 CHC APCI has issued Witness Point Schedule and first Supplier Notification Form for 10/7/2020.			NO		
0052		Shipment of Material with Open NCR	See Disposition & Required Actions	Kiewit	OSSQ	PH				Rework	Structural Steel Rejected and sent off-site		7/20/2020		7/22/2020					8/5/2020	8/5/2020	7/29 EMR sent to NG for disposition 7/22			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.	See Disposition & Required Actions	Kiewit	OSSQ	Aether				Remove and Replace	Remove and Replace	Kiewit shall amend specification to remove note (2) of appendix 2 and allow PRC sourced materials on a case-by-case. Basis with engineering approval.	7/28/2020	9/9/2020			8/21/2020			11/16/2020	1/7/2021	8/19 CHC National Grid has been issued a '5 Day Letter' to request Use-As-Is or pay to replace 8/26 CHC awaiting response from National Grid 10/7 CHC Awaiting direction from National Grid			NO		
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 5.3 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. 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. These (3) test specimens shall be tested from each weldment location, i.e., base		Kiewit	OSSQ	ACC				Rework to Acceptable Standard			7/31/2020		8/19/2020					1/7/2021	8/5 - EMR drafting			CLOSED	YES		
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					Vendor will allow review @ fabrication facility of the Aluminum WPSs by Kiewit and NG. After acceptable review submit a COC in lieu of actual WPS in the final package.	Communicate all client requirements down to all vendors and sub prior to fabrication	8/12/2020								1/7/2021	redacted version. Redacted version with Letter stating review from Kiewit in final package. Client option to amend if they can. Noble to set up WPS review with Justin M.			NO		
0056 R2	UOP 3 point inspection not completed per NGWP	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 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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	UOP				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		8/19/2020		8/25/2020						12/9/2020	facility. Shipping will be from that facility. 4 weeks to ship 10/17 CHC Chart to submit NDE Procedure for approval before commencing with NDE at Suppliers Facility.			CLOSED	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				Use-As-Is	Chart to perform additional NDE to meet the required % as required by NGWP (NFPA 59A - 2001)		8/19/2020		8/25/2020											NO	
0058 R1	APCI 3 point inspection not completed per NGWP	APCI performed final visual weld inspection on all piping welds on the Compressor 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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	APCI				Use-As-Is	Use As Is		8/19/2020		8/25/2020						12/9/2020	11/7 CHC No Update			CLOSED	YES	
0059	Cryo and Non-Cryo Control 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-3009 3. Cryogenic Control Valve TCV-3010 4. Non-Cryogenic Control Valve FCV-2330 5. Non-Cryogenic Control Valve FCV-2430 6. Non-Cryogenic Control Valve HV-2316 7. Non-Cryogenic Control Valve PCV-2308 8. Non-Cryogenic Control Valve PCV-2315 9. Non-Cryogenic Control Valve PCV-2318 10. Non-Cryogenic Control Valve PCV-2324		Kiewit	OSSQ	Various				Use-As-Is	Use As Is Based on Engineering approval	Kiewit shall amend specification to remove note (2) of appendix 2 and allow PRC sourced materials on a case-by-case. Basis with engineering approval.	9/8/2020	9/8/2020							10/7 CHC No Update 10/12 CHC No Update 10/17 CHC No Update 10/24 CHC No Update 10/31 CHC No Update			NO			
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				Use-As-Is	Use As Is Based on Engineering approval	Kiewit shall amend specification to remove note (2) of appendix 2 and allow PRC sourced materials on a case-by-case. Basis with engineering approval.	9/8/2020	9/8/2020							11/7 CHC No Update 10/2 CHC No Update 10/17 CHC No Update 10/24 CHC No Update 10/31 CHC No Update			NO			
0061	Non Cryo Manual Valves	Sunbelt Supply 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				Use-As-Is	Use As Is Based on Engineering approval	Kiewit shall amend specification to remove note (2) of appendix 2 and allow PRC sourced materials on a case-by-case. Basis with engineering approval.	9/8/2020	9/8/2020							10/7 CHC No Update 10/12 CHC No Update 10/17 CHC No Update 10/24 CHC No Update 10/31 CHC No Update			NO			
0062	Compressor Body 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 North				Use-As-Is	Use As Is Based on Engineering approval		9/8/2020	9/8/2020							9/26 CHC - No update 10/12 CHC Need update from Kiewit Project Team 10/17 CHC Need update from Kiewit Project Team 10/24 CHC Need update from Kiewit Project Team			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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	ACC				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/10/2020	9/12/2020						11/8/2020	11/12/2020	10/24 CHC No Update 10/2 CHC No Update 10/17 CHC No Update 10/24 CHC No Update 10/31 CHC No Update			CLOSED	NO
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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	APCI				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	Aether				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020	10/24 CHC Aether has verified in writing that a Fit-up, Root Pass and Final Inspection has been performed. This NCR can be Closed. 10/31 CHC Please issue NCR for closure. 11/7 CHC Please issue NCR for closure.			CLOSED	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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	APCI				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	APCI				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.		Kiewit	OSSQ	Chart				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	YES		
													9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	YES		

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
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 prep 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 logform to document the weld inspections. The alternate form must meet the minimum record requirements of API 1104 section 9.	N/A	Kiewit	OSSQ	Chart				Use-As-Is	Verify Final Visual Inspection was performed in accordance with B31.3 and if acceptable Use As Is		9/10/2020	9/11/2020	9/12/2020						12/9/2020		CLOSED	YES	
0070-R1	Atlas Copco Compressor - Base Metal Charpy SS	Atlas Copco Compressor 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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	ACC				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	1/7/2021		CLOSED	YES
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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	1/7/2021		CLOSED	YES
0072-R1	APCI - 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 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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	1/7/2021		CLOSED	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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	1/7/2021		CLOSED	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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	1/7/2021		CLOSED	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 Compressor 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 5.5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. 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 lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 lbs. at -20 degrees F for National Grid Gas Station piping systems"	N/A	Kiewit	OSSQ	UOP				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	10/24 CHC - UOP/OFRA are in the process of Testing Weld Coupons in Italy for Charpy Impact Testing per the NGWP to include Base Metal. Expected completion date is 11/6. 10/31 CHC Testing continues, no further update 11/7 CHC Base Metal Charpy Impact Testing completed and Approved by Kiewit Welding Engineering Group. Package sent to Elbert to request Closure of this NCR on Thursday 11/5.		CLOSED	YES
0076-R2	Chart - Final Line 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 Final Line 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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	Chart				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/9/2020			CLOSED	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 1. Three (3) test specimens shall be tested from each weldment location, i.e., base metal, weld metal, and heat affected zone."	N/A	Kiewit	OSSQ	Chart				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020			CLOSED	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."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all NDE was performed in compliance with B31.3 and detailed engineering design and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						1/15/2021			CLOSED	YES
0079-R1	APCI - 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."	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all NDE was performed in compliance with B31.3 and detailed engineering design and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						1/15/2021			CLOSED	YES
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."	N/A	Kiewit	OSSQ	UOP				Use-As-Is	Verify all NDE was performed in compliance with B31.3 and detailed engineering design and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						10/24 CHC Per UOP/OFRA an additional 54 Welds will need to under RT examination to meet the 30% per day criteria of NFPA 59A 10/31 CHC No further update		CLOSED	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."	N/A	Kiewit	OSSQ	CHART				Use-As-Is	Verify all NDE was performed in compliance with B31.3 and detailed engineering design and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						11/7/2021	10/24 CHC Sent e-mail to Chart requesting NDE procedures this past week. Chart to obtain from their Sub-Supplier, no Procedures received by COB 10/23. Sent another request on 10/24. This NCR is a duplicate of NCR-657 above. 10/31 CHC This NCR is a duplicate of NCR-657 above.		CLOSED	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					As a result, the work has been stopped and an alternate RFI #236 has been written that has approved the trimming of steel column 1A's shear lug that allows it to fit properly within the shear key pocket above the partially cut horizontal reinforcement steel resolving the encountered conflict. In addition, the Engineer of Record has examined the partially cut horizontal reinforcement steel bar and has determined that it is of adequate strength to utilize in place as is.		9/10/2020	9/11/2020	8/19/1010			9/18/2020			10/13/2020			CLOSED	NO
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 5.5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. Charpy V-Notch Toughness testing of the base metal and base metal heat affected zone in accordance with the requirements of ASME Section IX; Subparagraph 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 lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 lbs. at -20 degrees F for National Grid Gas Station piping systems"	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020			CLOSED	YES
0084-R1	APCI - 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 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 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. 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 lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 lbs. at -20 degrees F for National Grid Gas Station piping systems"	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020			CLOSED	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 5.5 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. 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 lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 lbs. at -20 degrees F for National Grid Gas Station piping systems"	N/A	Kiewit	OSSQ	APCI				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020			CLOSED	YES
0086-R1	Chart - Nitrogen Final Line Skid - 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 Final Line Skid piping 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 Content; Subsection 5.1 Scope; Paragraph d. Procedures; Subsection 2) Testing; Subparagraph 1. 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 lbs. at +20 degrees F. for buried transmission and distribution piping systems, b. 20 lbs. at 0 degrees F for above ground transmission and distribution piping and c. 20 lbs. at -20 degrees F for National Grid Gas Station piping systems"	N/A	Kiewit	OSSQ	Chart				Use-As-Is	Verify all Procedure Qualification Records contain Charpy impact testing results in compliance with B31.3 and if acceptable Use As Is.		9/10/2020	9/11/2020	9/12/2020						12/4/2020	10/17 CHC This NCR can be closed. The Vaporizers are manufactured from Aluminum and the operating temperature does not dictate Charpy impacts for this Material per the Kiewit Welding Engineering Group. The Weld Procedures have been approved "as-is" 10/31 CHC Please request to close this NCR 11/7 CHC Please request to close this NCR		CLOSED	YES
													9/10/2020	9/11/2020	9/12/2020					12/9/2020			VOID	YES	

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
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	1/7/2021		CLOSED	NO	
0088	Duckbank conduit D0125 Of coordinates	Conduit D-0125 moved during concrete placement encroaching on the Termination Cabinet Steel Support base plate for the Feed Gas Booster Compressor.		Kiewit	Construction	Site							10/1/2020	10/5/2020	10/6/2020					10/6/2020	1/7/2021	RFI-000240 Generated. Field cut the 2 west anchor bolts and post install 2 3/4" anchor bolts 3" to the east from the original anchor location.	CLOSED	NO	
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" wide section of R/W. R/W 4" gradation as shown on 102761-B-STR-SF-0175 detail B (Thornton Tomasetti). This results in a 4" road width reduction unless modifications are made to 102761-B-STR-SF-0175 detail B to widen the roadway.		Kiewit	Engineering	Site							10/1/2020										Determine potential to modify slope stability design to widen roadway. Potential to locate vapor barrier further north to allow for wider roadway.	OPEN	NO
0090	Compressor Building Anchor Bolt Off Coordinates	COLUMN B1 anchor bolts off location		Kiewit	Engineering	Site							10/2/2020								1/7/2021		CLOSED	NO	
0091	PSI CR Images quality for shop welds on spool fabrication	PSI CR images from spool fabrication were found to have excessive film artifacts per ASME Section V III-287 and T-281.		Kiewit	OSSQ	PSI							12/17/2020											CLOSED	NO
0092	Grout Breaks test results at 28 days are below Specification Requirements	Some Grout 28 day Break test results are below the 8000 psi requirement of 102761-B-STR-SPC-0022 Nonshrink Cementitious Grout, Section 2.0 Modifications to PIP ST303000, Item 3 "replace 5,000 psi with 8,000 psi."		Kiewit	Engineering	Site							1/5/2021											CLOSED	NO
0093	Incorrect SMAW filler used on CS welds	5 welds were completed using E7018 vs E7018-1 as required per WPS 1-1-BA-02128-C. Those welds were:	Filler metal purchasing will follow the procedure PCS-PRO-WELD-4.05. A second check for ANY filler purchased for the job is now in place. This required Project quality manager to sign off on filler metal purchasing. All T018 filler was removed from the job site. Only 7018-1 is allowed going forward. Training was held with the welders, foreman, and FESupers to review this incident and review filler metal control program and everyone's part.	Kiewit	Quality	Site							1/20/2021											CLOSED	NO
0094	ERTOS-2 used in lieu of 805-N1	2 welds were found to have ERTOS-2 used for GTAW versus the 805-N1 required per WPS 1-1-BA-01195-C. Welds affected by this are D-NR-2105-FW-01, D-NR-2010-03-FW-02		Kiewit	Quality	Site							1/26/2021											CLOSED	NO
0095	Incorrect GTAW filler was found in the welder and in the filler metal control room	During a routine inspection of subject field weld and associated filler metal, the Quality Control Inspector discovered that the rod caddy contained two different classifications of filler metal (ERTOS-2 and ER80S-N1). It was assumed that both types of filler metals were included in the weld.	Close down the filler metal control room, audit each filler metal issue slip and rod caddy, and perform a cause analysis to determine why two types of filler metals were issued in the same rod caddy.	Kiewit	Quality	Site							1/26/2021											CLOSED	NO
SR010-RPT-001		F-NR-2008-01-FW-01, B-NR-2101-02-FW-01, F-FGT-1014-01-FW-01, F-FGT-1014-01-FW-04, M-NR-2010-01-FW-01	The equipment as noted above shall be fully inspected by the original equipment manufacturer to what ever extent necessary and then submit to the Owner any recommended repairs.	Client	OSSQ						The equipment as noted above shall be fully inspected by the original equipment manufacturer to what ever extent necessary and then submit to the Owner any recommended repairs.	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	5/1/2019	11/15/2019	N/A	N/A	11/15/2019	6/15/2020	6/22/2020	6/22/2020				CLOSED	NO
SR010-RPT-001.01		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 > 300 and < 750 require a #1 Coating System with IZHSHS (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.	Blasit the non-compliant vessels to achieve SSPC-SP10 surface profile and repair following manufacturers recommended procedure to apply a #14 system IZHSHS coating.	Client	OSSQ	UOP					The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	5/1/2019	11/15/2019	N/A	N/A	11/15/2019	6/15/2020	6/22/2020	6/22/2020			8/15 CHC THIS WILL CLOSE OUT WITH KIEWIT NCR 5.6.7 8/19 CHC Re-Coating has been completed. NCR's 5.6 & 7 should be closed this week. 9/26 CHC Coating Reports issued to close NCR's 5.6 & 7	CLOSED	NO
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 TeamBlender that are not shown as having been properly stamped.	Review all associated project documents that do not meet the QMS requirements and stamp in accordance with requirements	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	6/11/2019	7/31/2019	N/A	N/A	7/31/2019	6/26/2020	9/30/2020	9/30/2020				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)	NG request and perform an audit of all NDE test results and records as performed at the GCWAW shop in relation to the previously fabricated equipment.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	6/23/2019	11/15/2019	N/A	N/A	11/15/2019	4/24/2020	5/27/2020	6/8/2020				CLOSED	NO
SR010-RPT-004		Kiewit QMS r3 and the Kiewit Quality Plan 102761-B-QLT-PLN-0001 define the requirements 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 CTR relocated the strain gauges from their 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.	All changes to specifications must be properly documented utilizing a RFI or other approved written procedure to ensure proper parties are notified of any said changes.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	6/23/2019	7/31/2019	N/A	N/A	7/31/2019	9/27/2019	9/27/2019	9/27/2019				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 code version which is incorrect. The project is using NFPA-59A-2001 version per PERC requirements. A review of the following specifications in TeamBlender show these documents are all referencing the incorrect specification: EA2A, ECC1, BCC1, DAA2, DCC1. This list may not be inclusive of all specifications with the wrong Code Version.	Place holds on all of the specifications that reference the wrong revision. Do not release until specifications are referencing the correct revision.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	7/1/2019	8/8/2019	N/A	N/A	8/8/2019	9/9/2019	9/9/2019	9/9/2019				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	Review Material Management procedures and requirements with all personnel involved in receiving of material to ensure the process is followed when non-conforming materials are received. Training to be documented.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	7/3/2019	8/27/2019	N/A	N/A	8/27/2019	9/27/2019	9/27/2019	9/27/2019				CLOSED	NO
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 "I". Kiewit allowed Atlas Copco to conduct a hydrotest of the Feed Gas Booster Compressor without providing National Grid proper notification of the test.	Procurement and OSSQ shall review the requirements for notification of off-site testing to ensure National Grid is properly notified in the proper time frame. Perform a root-cause analysis to determine the actual cause.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	7/30/2019	10/21/2019	N/A	N/A	10/21/2019	5/27/2020	5/27/2020	10/21/2019				CLOSED	NO
SR010-RPT-008		Incorrect hydro test pressure and hold time for firewater line. Test was not conducted in accordance with NFPA 24	Re-hydro all firewater spools that were not hydro tested in accordance with NFPA 24. Correct all Kiewit piping specifications that show ASME 31.3 as the design code for firewater systems to reflect NFPA 24 ISO's will be tested in firewater test system on-site. No further action required on this NCR, test will take place at a later date. DSE	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	8/1/2019	11/15/2019	N/A	N/A	11/15/2019	5/15/2020	5/27/2020	5/28/2020				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	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.	Client							The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	8/2/2019	9/27/2019	N/A	N/A	9/27/2019	9/27/2019	9/27/2019	9/27/2019				CLOSED	NO
											The Contractor shall require the equipment vendor to perform a thorough inspection of all APCI stored equipment and deliver a full report of all findings and recommended repairs that should be made. Inspection criteria shall be in accordance with requirements provided by the equipment manufacturer and any contractual requirements. Once the inspection is complete, any corrective actions must be completed promptly and continued storage & preservation activities must continue to take place and be documented. Kiewit/APCI Inspection = 6/25/19 Atlas-Copco Inspection of K-131 Compressor = Scheduled for 8/18/19	Kiewit will ensure contractual requirements are communicated to the vendor of fabricated metal in formal documentation. Also need to have a system in place to track that the vendors are performing and documenting care and preservation activities as required per contractual and vendor supplied requirements.	8/5/2019	11/15/2019	N/A	N/A	11/15/2019	5/28/2020	5/28/2020	6/1/2020				CLOSED	NO

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
SR010-RPT-010		Section 3.10 Welding Requirements, 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	Require ABB to formally submit quality deliverables through TeamBinder for NG review and approval prior to construction of equipment deliverables. Provide a preventative action that will ensure applicable contract requirements will be contained and conveyed within contracts between Kiewit and Vendors	Client						Require ABB to formally submit quality deliverables through TeamBinder for NG review and approval prior to construction of equipment deliverables. Provide a preventative action that will ensure applicable contract requirements will be contained and conveyed within contracts between Kiewit and Vendors	Client stated in this section, "Perform action and steps as noted in Section "B" above."	Kiewit to review all SDS requirements for future vendor work to ensure they are meeting the client requirements.	8/8/2019		8/8/2019	N/A	N/A	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-suspension documents. Large data dumps are transmitted without regard to previous review and comments by Owner. Documents have been removed from the obligatory (16 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 owner with a functional system that's capable and will permanently correct the discrepancies as noted in Section "A"	Client						Kiewit has issued a revised Document Control Procedure 102761-B-DMT-PRO-0001 which outlines alternate methods for Owner document review and comment outside of TeamBinder to support those having issues. Section 7.3 of the procedure details this process. Any documents that have been prematurely closed can be reopened for a review at the request of the owner.	see Disposition	N/A	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 pipe in which the freewater piping had the wrong hold time for hydro testing, and the Field Gas spools were missing NDE radiograph requirements. A final inspection release was not generated showing the shipment was in compliance with the project specifications.	N/A	Client	OSSQ	PSI		L	UG Pipe	See attached Addendum (A)	Update Master ITP with Kiewit and client comments.	Update Master ITP with Kiewit and client comments	8/14/2019		4/1/2020			5/26/2020	5/28/2020	5/28/2020	5/28/2020		CLOSED	NO	
SR010-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, Standards 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	Evaluate the correct NDE requirements as required by NFPA 59A - 2001 and perform the necessary additional NDE as required to meet compliance	Client	OSSQ	APCI		B	Cold Box Crossover Box	Kiewit will comply with the NDE requirements of NFPA 59A - 2001	Kiewit will review all supply contracts with piping components that need to include the requirements of NFPA 59A 2001 and reaffirm vendors compliance	Kiewit will review all supply contracts with piping components that need to include the requirements of NFPA 59A 2001 and reaffirm vendors compliance	8/20/2019		11/15/2019	11/15/2019		4/13/2020	6/15/2020	5/28/2020	5/28/2020	7/15 FINAL PACKAGE TO BE SUBMITTED TO KIEWIT 7/17. WE HAVE TO SUBMIT QUALITY DCS, NG FOR FINAL REVIEW. 7/22 EMR OSSQ signed book 7/21 to be scanned and submitted back to Kiewit 7/24 for review and submit to NG 7/25 CHC Awaiting Data Book from APCI 8/1 CHC - Data Book for Crossover Bridge has been received by Kiewit and was issued to NG on 8/5 8/8 CHC Data Book for Crossover Box entered into Team Binder. Kiewit Review Complete. (3) MTR issues that APCI has already sent corrections for these issues. 8/15 CHC Crossover Box Quality Dossier under review by CH4V for NG in Team Binder. Review scheduled to close 8/20. 8/22 CHC Crossover Box Quality Dossier Approved by NG via E-mail from Dennis Blair. NG on 8/19 and has been Approved in Team Binder. NCR can be closed	CLOSED	NO	
SR010-RPT-014	Submittal of Weld Procedures prior to construction	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	see disposition	Client						Kiewit will comply with the requirements of the prime contract.	Kiewit will comply with the NDE requirements of NFPA 59A - 2001	Kiewit will work with suppliers to provide National grid with weld procedures for review.	8/20/2019		9/27/2019	N/A	N/A	9/27/2019	11/15/2019	11/15/2019	11/15/2019		CLOSED	NO	
SR010-RPT-015 R2		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	Evaluate the correct NDE requirements as required by NFPA 59A - 2001 and perform the necessary additional NDE as required to meet compliance for Cold Box fabrication.	Client	OSSQ	APCI		B	Cold Box	Kiewit will direct APCI to perform NDE on the cold box as defined by Kiewit RFD099119 resolution dated 2/20/2020	Kiewit will comply with the NDE requirements of NFPA 59A - 2001	Kiewit will review all supply contracts with piping components that need to include the requirements of NFPA 59A 2001 and reaffirm vendors compliance	8/20/2019		11/15/2019	11/15/2019		4/13/2020	6/1/2020	6/17/2020	6/19/2020	Submitted for closure	CLOSED	NO	
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 absorbers, LDD-1011 Gas Separators; LDS-1010 A/B Particle Filters were reviewed by National Grid and found to be non-compliant with the contract requirements	Kiewit shall review the data book for the equipment as mentioned above and perform the necessary tasks so the data book complies with contractual requirements	Client	OSSQ	UOP		E	Pre-treatment Skid Absorbent(Gas Separator)	Kiewit will submit data books going forward as part of our document turnover process in accordance with 102761-B-DMT-PRO-0001, Document Control Procedure, Section 10.2, Project Data Book, following review by Kiewit.	Kiewit will submit data books going forward as part of our document turnover process in accordance with 102761-B-DMT-PRO-0001, Document Control Procedure, Section 10.2, Project Data Book, following review by Kiewit.	These databooks were submitted to National Grid as per their request, future databooks will be submitted to National Grid in accordance with Document Control Procedure.	8/29/2019		11/6/2020			5/28/2020	7/15/2020	11/6/2020	11/6/2020	Submitted for closure	CLOSED	NO	
SR010-RPT-017		The Vendor Data Book for UOP/GCAW equipment was submitted to National Grid for review. The book containing 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.	Kiewit shall review the data book for the equipment as mentioned above and perform the necessary tasks so the data book complies with contractual requirements	Client	OSSQ	UOP		E	Gas Separator	Kiewit will submit data books going forward as part of our document turnover process in accordance with 102761-B-DMT-PRO-0001, Document Control Procedure, Section 10.2, Project Data Book, following review by Kiewit.	Kiewit will submit data books going forward as part of our document turnover process in accordance with 102761-B-DMT-PRO-0001, Document Control Procedure, Section 10.2, Project Data Book, following review by Kiewit.	These databooks were submitted to National Grid as per their request, future databooks will be submitted to National Grid in accordance with Document Control Procedure.	8/29/2019		4/6/2020	4/23/2020		5/28/2020	6/24/2020	10/6/2020	10/6/2020	Submitted for closure	CLOSED	NO	
SR010-RPT-018	Kick-off meeting requirements	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.	Kiewit procurement shall identify the 4 & 5 risk level equipment vendors and schedule Kick-off meetings as required by the Site Specific Procurement Plan as noted above. In Section "A", National Grid shall be notified as required.	Client						Kickoff meetings with all suppliers signed up pre-suspension noted as 4 or 5 on the Master ITP have had kickoff meetings pre-suspension and during project re-initiation. An additional Prelab Quality meeting will be held as indicated in MTPP.	Kiewit will submit data books going forward as part of our document turnover process in accordance with 102761-B-DMT-PRO-0001, Document Control Procedure, Section 10.2, Project Data Book, following review by Kiewit.	Complete additional quality kickoff meetings at National Grid's directive.	8/28/2019		9/27/2019	N/A	N/A	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 inspections and expediting activities. The project has submitted several copies of the Master ITP to National Grid that are incomplete regarding dates and required inspections as noted in the referenced Procurement Plan.	Kiewit is to provide an updated and completed Master ITP that complies with the requirements as noted in Section "A" above.	Client						Kiewit is to provide an updated and completed Master ITP that complies with the requirements as noted in Section "A" above.	See, "Recommended Corrective Actions."		9/23/2019		11/15/2019	N/A	N/A	11/15/2019	5/28/2020	5/28/2020	6/4/2020	Robert has signed both Dip. And Closure, Dennis signing next.	CLOSED	NO	
SR010-RPT-020	Environmental - Improper closing of Ground Water Monitoring Well	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 RI DEM requirements with the requirements as noted in Section "A" above. The mw closure shall be witnessed and approved by the National Grid SIR representatives.	Client						see Section B	NG SIR representatives witnessed this ground monitoring well final closure.	Kiewit will work with NG to modify workplan, in writing, for management of existing plant item decommissioning/demolition. The revision to the workplan will be reviewed with the crew, and any deviation from the written workplan will be reviewed with NG prior to revising the workplan to account for the deviation.		10/3/2019		11/15/2019	N/A	N/A	11/15/2019	11/15/2019	11/15/2019	11/15/2019		CLOSED	NO
SR010-RPT-021	Environmental - Improper closing of Ground Water Monitoring Well	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 noted that the Geotechnical Engineer was not notified in accordance with Section 4.0 of the Earthwork Specification - 102761-B-CIV-SPC-0001. The audit team was unable to provide documentation supporting the requirement was met.	no corrective action required	Client	Engineering					Kiewit will be submitting a Corrective Action with Preventative actions for procedural adherence.	Kiewit to provide Geotechnical Engineer approval of proof rolling activities based on signed off Subgrade Inspection Reports of the area proof rolled.	Revise the approved Inspection & Test Plan 102761-B-CIV-TP-0001 to include Geotechnical Engineer approval requirements.	11/1/2019		3/27/2020	3/27/2020	4/3/2020	6/5/2020	6/22/2020	6/23/2020		CLOSED	NO		
SR010-RPT-022	Audit Finding	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.	Obtain approval from EOR for use of Geo-Text material	Client						Obtain approval from the EOR for use of Geo-Text material	Drawing B-00-0000-STR-SF-5175 depicts the applicable Geo-Text material and is stamped by the EOR with Thomson Tomasetti	N/A	11/1/2019		1/7/2020	N/A	N/A	1/7/2020	1/7/2020	1/7/2020	1/7/2020		CLOSED	NO	

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity
SR010-RPT-023	Hydro Testing of L9020-A/B Nitrogen Vessels	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 On-Site Vendor Surveillance report 1910111 user 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. 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.	Client	OSSQ					Further investigation agreed that a hydro test was not performed and a pneumatic test will be performed at a later date in accordance with applicable code and project requirements. Client will be notified to attend testing.	NA		11/4/2019		11/15/2019	N/A	N/A	11/15/2019	6/24/2020	7/8/2020	7/8/2020		CLOSED	NO
SR010-RPT-024	IFS Transmembrane Welding Procedures	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 submitting for National Grid review. The welding procedures for IFS's subcontractor, Transmembrane were not submitted to Owner for approval after review by Kiewit.	Kiewit is to comply with the contract and submit all welding procedures to Owner for review.	Client	OSSQ	Integrated Flow Solutions			Regen Gas KO Drum? Filter Separator	Kiewit to comply with contract and submit all welding procedures to Owner for review.	NA		12/21/2019		5/19/2020			5/19/2020	5/21/2020	5/21/2020	5/20/2020		CLOSED	NO
SR010-RPT-025	SNF for Hydro IFS Transmembrane National Grid	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/Transmem 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 Finding Log is included.	Client	OSSQ	Integrated Flow Solutions			Filter Separator	see recommended corrective action	NA													
SR010-RPT-026	Regen Gas Heater LDE-1021A- Tube Bundle	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 due to the bent condition.	Rebuild and replace tube bundle performing all required testing as per the contractual requirements.	Client	OSSQ	UOP			Pretreatment Skid	Repair	NA		1/16/2020		4/2/2020			5/21/2020	5/21/2020	5/21/2020	5/21/2020	Submitted 4/2/2020	CLOSED	NO
SR010-RPT-027	Regen Gas Heater LDE-1021B- Tube Bundle	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/Transmem to conduct a hydrotest of the Feed Gas Filter without providing National Grid proper notification of the test.	Rebuild and replace tube bundle performing all required testing as per the contractual requirements.	Client	OSSQ	UOP Integrated Flow Solutions			Pretreatment Skid Filter Separator	Repair	NA		2/5/2020		3/16/2020			5/28/2020	6/15/2020	6/5/2020	6/8/2020		CLOSED	NO
SR010-RPT-028	Non-Implementation of Corrective Action Procedure	Kiewit procedure 102761-B-QLT-PRO-0011 Corrective & Preventive 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-Conformance Reports (NCR) generated for this project has warranted Corrective Action Reports (CARs) and has requested on several occasions such reports be generated. To date Kiewit has not generated CER's	Review the NCR logs for both Kiewit and National Grid from which an indeterminate amount of CAR's may be generated.	Client	Quality					Kiewit will perform 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.	NA		2/21/2020		3/16/2020			5/26/2020	6/15/2020	6/5/2020	6/8/2020	Closure pending initiation of training programs listed in CARs	CLOSED	NO
SR010-RPT-029	Non-Implementation of Project Quality Audit	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 Client's Project Quality Management System. This procedure applies to all Client'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.	Review and update the Quality Audit Schedule 12761-B-QLT-SCH-0001. Perform the audits as scheduled notifying the Client to allow for their witness.	Client	Quality					Kiewit will update 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 Niconia Grid to attend future audits.	NA		2/21/2020		3/16/2020			4/10/2020	6/1/2020	5/27/2020	6/4/2020	Submitted 5/27/2020 Resubmitted - sign issue - 5-29	CLOSED	NO
SR010-RPT-030	Sub-Vendor Submittal of Quality Deliverable	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.	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.	Client	OSSQ	Patterson Horth			Compressor Building	Perform actions as of Sec. B Recommended Corrective Action section.	NA		2/27/2020		3/20/2020			4/23/2020	5/28/2020	5/28/2020	5/29/2020		CLOSED	NO
SR010-RPT-031 R1	MOC Violation	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.	All Kiewit Project Engineering Staff must attend training on the MOC procedures which will be conducted by Ryan Terry of the PSRG	Client	Engineering					Perform actions as required by Sec. B. Recommended Corrective Actions	NA		2/27/2020		4/1/2020			4/20/2020	5/28/2020	5/28/2020	5/29/2020		CLOSED	NO
SR010-RPT-032	Ductbank Trench Backfill - Inconcrete	Kiewit placed backfill on Duct Bank area 7 using (12") lbs. Earthwork Specification 102761-B-CIV-SPC-000 REV. 01 states in Sec. 4.15 Compaction Requirements for Trenches the backfill shall be in 6" lifts	Kiewit is to remove the material placed in the referenced area that was preformed with 12" lifts and replaced material with 6" lifts	Client	Engineering					corrective actions required as described above	NA		2/27/2020		3/10/2020			4/2/2020	6/15/2020	6/22/2020	7/8/2020	CAR training	CLOSED	NO
SR010-RPT-033	Concrete Form Removal	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 can be removed in (48) hours. ACI Sec. 2.11.1 requires a submital 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. 3.7.2.3 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 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 accepted.	Kiewit to submit a plan to National Grid for review and approval that does not require a compressive strength value as a determining factor in form removal or submit a compressive strength value to be met prior to form removal.	Client	Engineering					corrective actions required as described above	NA		3/2/2020		3/27/2020			3/27/2020	3/27/2020	3/27/2020	3/27/2020	KOE currently reviewing issue and will provide proposed disposition no later than 3/26/2020.	CLOSED	NO
SR010-RPT-034	NCR Closures	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.	Process all NCR's to complete disposition and closure where possible.	Client	Quality					Process all NCR's to complete disposition and closure where possible.	NA		3/2/2020		3/16/2020			5/26/2020	5/28/2020	5/28/2020	5/28/2020		CLOSED	NO
SR010-RPT-035	Non-Compliant Code Film	National Grid performed an audit on legacy film 3886 LD-1000C 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.	Provide a code compliant RT film for the referenced weld mentioned in section "A" above	Client	OSSQ	UOP			Absorber	Provide a code compliant PAUT Scan for the referenced weld mentioned in section "A" above.	NA		3/3/2020		5/21/2020			5/26/2020	6/24/2020	7/16/2020	7/16/2020	7/15 PAUT COMPLETE. READY TO SEND TO CLIENT FOR APPROVAL. NEED REPORT. 7/15 TO SUBMIT TO SEND TO CLIENT	CLOSED	NO
SR010-RPT-036	Personal Changes without Client Acknowledgement	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 the 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 "T", and submit resumes on all Key Personnel that have changed within the last (90) days.	Client	Construction					Perform the required actions as noted in sec"B". Recommended Corrective Action	NA		3/4/2020		3/10/2020			5/29/2020	6/1/2020	6/22/2020	7/8/2020		CLOSED	NO
SR010-RPT-037	Document Submittal for Owner Approval	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-003 was issued a Studio Session for Rev. A & B but sessions for Rev. 00, 01, 02, & 03 were not issued.	Kiewit will provide a comprehensive list of all design documents that are required to be submitted to the owner for review and approval over the last (120) days that were not properly processed through a Studio Session for owner review. Owner may require, at Owner's discretion, for these documents be submitted for review and approval.	Client	Engineering					corrective actions required as described above	NA		3/10/2020		4/6/2020			4/10/2020	5/15/2020	5/28/2020	6/4/2020		CLOSED	NO
SR010-RPT-038	As-Built Drawings and Specifications	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.	Kiewit will produce a set of "E" size 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.	Client	Construction					Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	NA		3/24/2020		5/28/2020			5/28/2020	5/28/2020	5/28/2020	6/4/2020		CLOSED	NO
SR010-RPT-039	Updated Drawing Index	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.	Kiewit shall produce an updated drawing index in an acceptable format for all IFC/IFC drawings and submit such list to National Grid Engineering by COB on each Friday during design and construction of the LNG Facility.	Client	Construction					Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	NA		3/24/2020		4/6/2020			4/6/2020	6/1/2020	6/2/2020	6/17/2020		CLOSED	NO
SR010-RPT-040	IFC Document Control Procedure	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 (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.	Kiewit will immediately produce and implement the Client's comments in the referenced Document Control Procedure and submit as IFC to the project.	Client	Construction					Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	NA		3/24/2020		6/2/2020			6/2/2020	6/1/2020	6/2/2020	6/2/2020	Submitted for Disp & Closure	CLOSED	NO

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
SR010-RPT-041	Closure of Drywell North of Old Propane House	Kiewit performed a closure of the Dry Well next to the Old Propane House without properly notifying National Grid Construction, environmental and O&A. 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.	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.	Client	Construction					corrective actions required as described above	Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	N/A	3/25/2020		4/1/2020			6/22/2020	6/15/2020	6/22/2020	7/8/2020	7/15 ORIGINAL SENT 6/22 RESENT 7/8. WAITING ON CLIENT FOR DISPOSITION AND CLOSURE.	CLOSED	NO	
SR010-RPT-042	Final Inspection and Documentation review at Highland Tank - Mannheim PA	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) PM 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.	Client	OSSQ	Highland Tank		B/G	Cold Blowdown Drum Warm Blowdown Drum	corrective actions required as described above	Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	N/A	4/16/2020		5/21/2020			5/27/2020	6/26/2020	7/22/2020	7/23/2020	7/15 CARNES TO GET WITH ROBERT P. RCA REQUESTED. SENT 7/10 TO ROBERT P. 7/22 RCA revised - send to NG for Review.	CLOSED	NO	
SR010-RPT-043	OMS Non-Compliance Section 18.0 Control of Non-compliance	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 practices." 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.	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.	Client	OSSQ	Cape	H	PDC	corrective actions required as described above	Corrective Action shall follow the recommended Corrective Action as noted in section "B" above	N/A	4/24/2020		5/13/2020				5/13/2020	5/13/2020	5/13/2020	5/13/2020	Disposition Signed by NG at time it was issued 4/24/20	CLOSED	NO	
SR010-RPT-044	Redacted Contract Submittal	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.	Client					Accept as is	Kiewit shall provide Nitoria Grid Supplier Document Schedule as requested	Accept	5/5/2020		5/20/2020				5/20/2020	5/29/2020	5/29/2020	5/29/2020		CLOSED	NO	
SR010-RPT-045	Quality Deliverable Submittal	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 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, subcontractor to Patterson North has refused to submit the quality deliverables as are required through InEight for Owner review and approval.	Kiewit shall require NUJOR, as a subcontractor to Patterson North, to submit all required quality deliverables through the InEight/TeamBinder system for review and approval by Client.	Client	OSSQ	PH NUJOR			Accept as is	The recommended Corrective Action "B" above, shall serve as the disposition for this NCR.	N/A	5/5/2020		5/20/2020				5/20/2020	5/29/2020	5/29/2020	5/29/2020	NUJOR QC Pkg Needed! 7/15 ROBERT P. HAS REVIEW NEW PREFAB SUBMITTALS. NUJOR OWES MINOR CORRECTIONS FOR FINAL APPROVAL 7/22 EMR front and submittals are going into TeamBinder today (those required for submittal) 7/25 CHC Weld Procedures, Welder Qualification and Continuity Log submittals re in Team Binder for Global Review 7/31 @ NUJOR site visit with NG 7/28 EMR site visit with NG by OSSQ 8/1 CHC - Weld Procedures, Welder Qualification and Continuity Log and Sample Cut Sheet Drawing returned APP after NG review last week, welding and Kiewit inspection successfully completed at NUJOR on 7/31. Quality Dossier due to Kiewit on 8/5 with issuance to NG by COB 8/6 will include request for "Release to Ship" 8/8 CHC NUJOR Quality Dossier received 8/5 as promised, reviewed and forwarded to Robert Poche on 8/6. Currently under NG review 8/15 CHC - CLOSED on 8/14	CLOSED	NO	
SR010-RPT-046	Offsite Welding without Approved WPS	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.	Client	Construction				corrective actions required as described above	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.	N/A	5/5/2020		6/1/2020				6/1/2020	6/15/2020	8/13/2020	8/18/2020		CLOSED	NO	
SR010-RPT-047	Offsite Welding without Approved WPS	Drawing 102761-B-00-0000-STR-SF-6175 detail 8 shows using Miraf 180N or equal geotextile fabric. The 3rd lift construction used Miraf 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.	Client	Construction				corrective actions required as described above	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.	N/A	6/2/2020		6/2/2020				6/2/2020	6/30/2020	8/12/2020	8/17/2020	7/22 EMR need to do RCA then a CAR can be authored. 7/29 EMR RCA to be completed - 7/29 8/5 EMR submit for closure	CLOSED	NO	
SR010-RPT-048	Offsite Welding without Qualified Welder	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.	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.	Client	Construction				corrective actions required as described above	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. Kiewit Engineering has presented an option to the above disposition and will attach the approved RFI to this NCR as acceptable evidence.	N/A	7/15/2020		7/15/2020				7/15/2020		10/15/2020			7/22 EMR need to install supplemental steel	CLOSED	NO
SR010-RPT-049	Mass Concrete Temperature Delta NC Compressor Foundation	Kiewit's thermal control plan dated Dec '19, does not provide specifications and tolerances for mass concrete pour temperatures delta between core and near surface. Section "7" of the 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 5/28/2020 @ 5:08 AM until 5/29/2020 @ 11:28 AM the maximum temperature differential was in excess of 30 deg F.	n/a	Client	Construction				corrective actions required as described above	The concrete did not exceed the maximum temperature (185 degrees F) per the Thermal Control Plan Table 6.2.2.2 (ACI 201.2R-16) The 35 degree temperature differential, which is a general and simplified recommendation, was exceeded, however acceptance per the Thermal Control Plan is based on the absence of thermal differential induced	N/A	6/11/2020		7/10/2020				7/15/2020	7/16/2020	7/16/2020	7/16/2020	7/15 OSCAR (6/25 EMAIL) VALIDATED DISPOSITION. CLIENT APPROVED DISPOSITION. SEND TO CLIENT FOR CLOSURE 7/15	CLOSED	NO	
SR010-RPT-050	Welder Continuity for Hudson Products	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 processes 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.	Kiewit to collect all WPOs and continuity log with all welders from Hudson and submit to National Grid	Client	OSSQ	Hudson Products			corrective actions required as described above	Kiewit to collect all WPOs and continuity log with all welders from Hudson and submit to National Grid. Tack welders whose welds were completely removed from the vessel are not required to be certified per ASME sec VIII there fore their certifications are continuity are not included	N/A	6/15/2020		7/8/2020				7/15/2020		11/6/2020	1/7/2021	8/1 CHC - Kiewit to issue Letter to Hudson prior to the re-start of fabrication demanding Continuity Records not received by 8/8 8/8 CHC Demand Letter for completion of Continuity Records has yet to be sent out by Kiewit Procurement. OSSQ requested in-person meeting with Hudson Management which took place between Ken Whitten TIC District Quality Manager and Hudson Manager of 7/15/2020. DID NOT HAVE CONTINUITY. SUBMIT BY 7/17 TO CLIENT FOR CLOSURE (CHUCK CARNESE) 7/22 EMR: TIC DATA book is complete, can close NCR. Steel is currently being re-fabricated 7/25 CHC Final Inspection at NUJOR set for 7/31. Quality Dossier to be delivered to Kiewit for NG review while steel is going thru galvanizing, before steel is shipped to Project Site 8/1 CHC - Weld Procedures, Welder Qualification and Letter* to request Use-As-Is or pay to replace 8/26 CHC awaiting response from National Grid 10/17 CHC awaiting response from National Grid 10/12 CHC Awaiting response from National Grid 10/17 CHC Discussed with Robert P on Friday 10/16 who discussed with Dennis Behr. Still awaiting direction from National Grid.	CLOSED	NO	
SR010-RPT-051	Welder's without properly documented WPCR	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 (WPCR) 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 ID'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 cutout and re-welded or replaced with completely new fabricated members. Other alternative corrective method may be submitted to the Client for their approval.	Client	OSSQ	PH NUJOR			replace	All welds that were deposited by the above referenced welders are rejected and must be either cutout and re-welded or replaced with completely new fabricated members. Other alternative corrective method may be submitted to the Client for their approval.	N/A	6/16/2020		6/23/2020					8/14/2020					CLOSED	NO
SR010-RPT-052	O-Sonic Flow Meter Chinese Material	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 to Fuel Gas, etc. The O-Sonic flow meter housing and various components show the material was manufactured in China as shown by the Material Test Reports.	Remove and replace the flow meter with a O-sonic flow meter with non-Chinese materials per the project specifications.	Client	OSSQ	Aether			corrective actions required as described above	Obtain PE letter approving the use of PRC material for the Flowmeter	N/A	9/2/2020		11/20/2020					11/20/2020	1/7/2021			CLOSED	NO	

NCR No.	Title	Description	Recommended Corrective Action	Type (Internal / Supplier / Client)	Action By	Vendor	Discipline	Construction Area	Piece of Equipment Affected	Disposition	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	ENG Signature Date	Date Disposition Submitted to Client	Rejected	Elevated	Date Disposition Approved By Client	Proposed Closure Date	Date Submitted to Client for Closure	Date Closed	Planned Action	ACTIVE	NGWP Activity	
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 Piping material under (500)PSIG design pressure (higher pressure are not included for this material grade.)	The use of PRC material per the conditions of 102761-B-MEC-SPC-007 require Engineering/client approval. This is a prerequisite to purchasing/ use of PRC the spec. Follow up meetings and trainings on the purchasing and use of PRC materials was communicated to purchasing group and site FES ordering materials.	Client	Construction	APCI				corrective actions required as described above	PRC material for the identified components on the Crossover BOX is acceptable with PE sign off per 102761-B-MEC-SPC-007	N/A	9/8/2020		11/20/2020				11/20/2020	1/7/2021			NO	CLOSED	
SR010-RPT-054	Compressor Building Incorrect Weld Detail	Patterson North/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	Additional welds will be required to meet the shop detail of (3/16") fillet 2-6" staggered weld. Galvanizing is required to be completely removed to bare metal a minimum of 2-3" from the weld area and after acceptance of the final weld the welded area shall be coated with a cold galvanizing component.	Client	Construction	Patterson North				Rework	Additional welds will be required to meet the shop detail of (3/16") fillet 2-6" staggered weld. Galvanizing is required to be completely removed to bare metal a minimum of 2-3" from the weld area and after acceptance of the final weld the welded area shall be coated with a cold galvanizing component. NUCOR engineering has stated the drafting of the shape drawing was incorrect, however welds were performed as intended by structural design. Drawings revised as per example attachment showing 2" stitch on 12" centers, staggered on each side.	N/A	9/9/2020		11-Sep					10/8/2020				CLOSED	NO
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.	replace the non-compliant	Client	Construction	ABB				Replace	Replace the non-compliant temperature monitors with the proper scale as per the contract requirements.	N/A	9/9/2020											NO	OPEN
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 34.8 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.	Root cause analysis was performed and a Corrective Action Report detailing the plan to prevent recurrence has been developed. Please see CAR 003 for details of the cause and corrective actions to be implemented to prevent recurrence. The CAR will stay open until the corrective actions prove effective.	Client	Construction	Site				Accept as is	Root cause analysis was performed and a Corrective Action Report detailing the plan to prevent recurrence has been developed. Please see CAR 003 for details of the cause and corrective actions to be implemented to prevent recurrence. The CAR will stay open until the corrective actions prove effective.	N/A	9/9/2020		10/22/2020					10/23/2020	1/7/2021			NO	CLOSED
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.	Engineering is to evaluate the cut rebar and determine if corrective action is required. Kiewit to perform a Root Cause Analysis to investigate the continuing action of performing work without authorization and submit to National Grid for review and approval.	Client	Construction	Site				corrective actions required as described above	Engineering is to evaluate the cut rebar and determine if corrective action is required. Kiewit to perform a Root Cause Analysis to investigate the continuing action of performing work without written authorization and submit to National Grid for review and approval.	N/A	9/10/2020							10/21/2020				NO	CLOSED
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 (1.87) 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											NO	OPEN
SR010-RPT-059	Change of Design for Ground Grid at E/W Pipe Rack	Kiewit 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					Kiewit Engineering shall review the proposed changes and submit a RFI to National Grid for review with proposed red-line drawing showing the necessary changes to be made.		9/11/2020		10/22/2020					10/23/2020				NO	OPEN
SR010-RPT-060	Erection for NS Pipe Rack	Prime Contract 4400005216 Scope of Work Section 4.12 Erection Procedure states "The Contractor shall submit copies of the erection procedure for all LNG facility equipment and systems to the Owner's representative for information prior to such erection being carried out on the Work Site." National Grid requested a NS 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 NS Pipe rack which is in violation of the Contract as noted above.		Client	Construction	Site							9/18/2020		10/22/2020					10/22/2020				NO	VOID
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.	requirements as listed in Section 4.12 and Section 3.21.2 by providing detailed method stated and risk assessments to Nation Grid at least one week in advance of the construction activities. These method statements shall	Client	Construction	Site							10/9/2020							12/9/2020	1/1/2021			NO	CLOSED
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.	Follow the complete set of requirements for storage of the Booster Compressor as noted in the Lay-Up Plan for the L-0309 Compressor. Hold a pre-activity meeting within a week of equipment arrival to cover requirements for initial inspection, preservation and rigging/lifting plan.	Client	Construction	Site				corrective actions required as described above	Build a tent per section 5.3.2 of the ACC Preservation requirements. Compressor was set 10/7/2020. Covered with tarp on 10/8/2020. Semi permanent scabbled cover built and completed 10/10/2020.	N/A	10/9/2020		11/20/2020			12/7/2020		11/20/2020	12/7/2020			NO	CLOSED