# nationalgrid

May 1, 2020

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

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

Dear Secretary Bose:

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

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

Respectfully submitted,

|s| Patrick A. Chaney

Patrick A. Chaney Lead Project Manager – New England LNG Capital Delivery, Gas – Complex Project Management Patrick.Chaney@nationalgrid.com

cc: Service List

### MONTHLY STATUS REPORT FOR APRIL 2020

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

#### Update on Federal Authorizations

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

#### Project Schedule – Construction Status and Work Planned

Work Accomplished in April 2020:

- Training in the Environmental Inspector ("EI") duties occurred seven times this month
- Air monitoring in accordance with the Rhode Island Department of Environmental Short-Term Remedial Action Plan is ongoing and continued during this month.
- Completed Micropiling in all areas other than "G" metering skid.
- Continued underground utility support grade beams.
- Continued duct bank works around Power Distribution Center.
- Continued firewater installation.
- Poured booster compressor foundation.
- Continued grounding installation.

Work Planned for May 2020:

- Complete micropiling in area "G" metering skid.
- Demobilize micropiling equipment.
- Continue foundations in compressor building and piperack.
- Start foundations in coldbox area.
- Continue firewater and ductbank utility foundations and installation.
- Erect 200t lattice boom crawler crane. Receive PDC modules.

#### 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									
03/30/2020	Clean Silt sack for catch basin 15.	Sediment removed from Silt sack.	04/02/2020	Effective, restored drainage of storm water.									

03/30/2020	Sheen observed in secondary containment.	Sheen removed from containment.	04/07/2020	Effective, secondary containment restored.
04/03/2020	Uncover catch basin 15	Road plate removed from catch basin.	04/04/2020	Effective, restored drainage of storm water.
04/03/2020	Sheen observed in secondary containment.	Sheen removed from containment.	04/07/2020	Effective, secondary containment restored.
04/08/2020	Clean Silt sack for catch basin 15.	Sediment removed from Silt sack.	04/11/2020	Effective, restored drainage of storm water.
04/08/2020	Roughen tracking pad.	Pad roughened.	04/10/2020	Effective, restored tracking pad.
04/22/2020	Place generator in secondary containment.	Equipment placed into secondary containment.	04/23/2020	Effective, secondary containment restored.
04/22/2020	Sheen observed in secondary containment.	Sheen removed from containment.	04/23/2020	Effective, secondary containment restored.
04/22/2020	Adjust filtrexx soxx at perimeter.	Adjustment made to filtrexx soxx.	04/24/2020	Effective, sedimentation control restored.
04/27/2020	Sheen observed in secondary containment.	Sheen removed from containment.	04/30/2020	Effective, secondary containment restored.

# Problems and Noncompliance

		Releases	6						
Date	Material and Quantity Released	Cause	Description	Corrective Action Taken					
None during this 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

Construction Activities Observed during the reporting period:

- Completed installation of all micropiles except for Area G, where pile installation is ongoing (less than 10 micropiles remain to be installed).
- Began construction of East-West Pipe Rack Foundations 2, 3, and 4.
- Began construction of Duct Bank Foundation #2 and grade beams UG FDN #4 and #5.
- Completed construction of Duct Bank Foundation #4, along with grade beam UG FDN #10 and the northern portion of grade beam UG FDN #1.
- Completed construction of the Compressor Building's Feed Gas Booster Compressor Foundation.
- Completed construction of Duct Banks 06 and 08.
- Installed the firewater line between an existing water line and Tie-Point 008B.
- Installed the firewater line between the north, main firewater line and the western Compressor Building connection.
- Continued installing the electrical conduit and associated bedding beneath the proposed Compressor Building pile cap.
- Continued placing mass fill material in the general area of the Compressor Building.
- Completed repairs to Duct Bank 05 per NCR-0044.

Discrepancies reported to Contractors:

 Due to the occurrence of an electrical storm towards the end of the day, Kiewit was unable to place grout for the fully drilled micropiles 5670-B-MP-12 and 5953-L-MP-04 on the same day drilling had been completed. This was not in compliance with Item 3.5.2 of project document, "Technical Specification for Cased Micropiles." Kiewit contacted their engineers who directed the contractor to proceed with the resolution from RFI-000098-5870-M-MP-07 – Same Day Grout Requirement, which had been submitted on 12/18/2019 to address a similar issue.

Uncorrected discrepancies reported to Engineer of Record:

• There were no uncorrected discrepancies for the month of April, 2020.

#### See Attached Register

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

Yes	No	See discrepancies list above
Special Inspector:		Charles Boisvert
Date:		April 30, 2020

## ATTACHMENT

NON-CONFORMANCE REGISTERS

#### NON-CONFORMANCE REGISTER - For the registration of NCR Reports

#### national**grid**

Project	Project #: 90000130901 Project Name: Field Point Liquefaction Project Providence, RI										
	OSSQ Engineering Procurement Construction			Construction	Quality	Vendor	Material Management	Project Management	Total Issued		
Percentage of Total	21%	19%	19%	16%	9%	9%	2%	5%	100%		
Count by Discipline	9	8	8	7	4	4	1	2	43		
NCR Ref:	Audit Ref:	Issue Date		NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause 1	Discipline		
SR010-RPT-001	N/A	5/1/2019	Contract section 3 equipment.	3.20.6 states the Contractor shall be responsible to store, protect and maintain all	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		Vendor	Procurement		
SR010-RPT-001A r1	N/A	6/11/2019	Incorrect paint ap of the QMS r3	plied on vessels at GCAW was not properly addressed by Kiewit with a NCR per Section 18	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	7/31/2019		Vendor	Procurement		
SR010-RPT-002	N/A	6/23/2019	Section 12.0 of th superseded	e Kiewit QMS requires all documents that are replaced to be stamped as voided or	Kiewit to follow the Documents Control Procedure 102761-B- DMT-PRO-0001 section 6.3.4 Stamping and Document Notations	11/15/2019		Engineering	Engineering		
SR010-RPT-003	N/A	6/23/2019		iested Kiewit to provide (2) RT film packages for audit purposes related to the GCAW see 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	7/31/2019	9/27/2019	Procurement	Vendor		
SR010-RPT-004	N/A	7/1/2019	Kiewit did not follo Micro Pile testing	w their QMS r3 or contract requirements when changing the location of the load cells for the	Kiewit to provide refresher RFI training to field personnel on the RFI process to ensure RFI's are submitted in a timely manner.	9/9/2019	9/9/2019	Contractor	Construction		
SR010-RPT-005	N/A	7/3/2019	Piping specification	ons 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	8/27/2019	9/27/2019	Engineering	Engineering		
SR010-RPT-006	N/A	7/30/2019	Kiewit's Procur	ement Plan requires non-conforming materials received to be placed in a Quarantine area and/or marked as do not use.	Place the referenced piping into the specified quarantine area and properly mark as do-not-use	10/21/2019	10/21/2019	Contractor	Material Management		
SR010-RPT-007	N/A	8/1/2019	Kiewit did not noti with Section 2.23	fy National Grid for the off-site testing of the Feed Gas Booster Compressor in accordance 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.	11/15/2019		Procurement	Quality		
SR010-RPT-008	N/A	8/2/2019	Incorrect hydro te: NFPA 24.	st pressure and hold time for firewater line. Test was not conducted in accordance with	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	9/27/2019	9/27/2019	Engineering	Engineering		
SR010-RPT-009	N/A	8/5/2019		to notify National Grid per the Master ITP on Hold and Witness points. NG was not notified nent of Piping Fabrication	Revisit the requirements for Client notification of vendor testing with all personnel related to the requirement, document the training and provide NG with a responsibility matrix to ensure proper notification is achieved.	11/15/2019		OSSQ	Procurement		
SR010-RPT-010	N/A	8/8/2019		to provide the off-site vendors with the requirements of the contract between National Grid wit Power Constructors Co. Section 3.10 Welding Requirements was not conveyed to ABB iction.	Vendor ABB submitted weld procedures as required	8/8/2019	9/27/2019	Procurement	Procurement		

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause 1	Discipline
SR010-RPT-011	N/A	8/8/2019	Section 3.21.23 Document Management and Control states the Contractor shall provide a fully functional, integrated, electronic data and document management system.	Kiewit has provided a system using SharePoint for that allows updates to review documents and coordinates with Document Control	1/15/2020	1/15/2020	Contractor	Engineering
SR010-RPT-012	N/A	8/14/2019	Section 7.2 Procurement Strategy of the prime Contract requires a Supplier shipment to be inspected by the Contractor to ensure compliance with Project Specifications. The first shipment for the UG piping did not receive a final release shipment	Open pending additional information			OSSQ	Procurement
SR010-RPT-013 R1	N/A	8/20/2019	Prime Contract Attachment 7 requires APCI to comply with NFPA 59A. A data review of the quality documents noted the actual NDE performed was not in compliance with the NFPA 59A requirements. A review of documentation for the Cross over Bridge piping did not reflect this requirement. Revision 1 added the contract requirements noted in Section 3.10 - SOW	Open pending additional information	4/13/2020		Vendor	Vendor
SR010-RPT-014	N/A	8/20/2019	Prime Contract Section 3.10 Scope of Work requires all procedures for welding of piping, vessels and equipment performed off-site shall be submitted to the Owner for review and approval prior to construction.	Kiewit will comply with the requirements of the Prime Contract	9/27/2019	11/15/2019	Vendor	Vendor
SR010-RPT-015 R1	N/A	8/20/2019	Prime Contract Attachment 7 requires APCI to comply with NFPA 59A. A data review of the quality documents noted the actual NDE performed was not in compliance with the NFPA 59A requirements. A review of documentation for the Cold Box piping did not reflect this requirement. Revision 1 added the contract requirements noted in Section 3.10 - SOW	Evaluate the correct NDE requirements as required by NFPA- 59A-2001 and contract. Perform the necessary additional NDE as required to meet compliance for the Cold Box fabrication.	4/13/2020		Vendor	Vendor
SR010-RPT-016	N/A	8/27/2019	UOP/GCAW equipment data books were reviewed by National Grid and found to be non-compliant with contract requirements	Kiewit shall review the data books for the equipment as mentioned above and perform the necessary tasks so the data books comply with contractual requirements.	Rejected 4-6-20		Vendor	Procurement
SR010-RPT-017	N/A	8/27/2019	UOP/Fabsco 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.	Rejected 4-6-20		Vendor	Procurement
SR010-RPT-018	N/A	8/28/2019	Kiewit Site Specific Procurement Plan requires all contracts with risk level of 4 or 5 to conduct kick-off meetings upon execution of the 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	9/27/2019	11/15/2019	Procurement	Procurement
SR010-RPT-019	N/A	9/23/2019	Kiewit Site Specific Procurement Plan requires development of a Master ITP Plan including Witness and Hold Points, FAT Test, quality audits and any additional recommended in-process shop inspection. These activities shall include dates.	Kiewit is to provide an updated and completed Master ITP that complies with the requirement as noted in the Project Specific Procurement Plan 102761-B-QLT-PLN-002	11/15/2019		Procurement	OSSQ
SR010-RPT-020	N/A	10/3/2019	A ground Water monitoring well (mw) was identified in Kiewit's work area for Field Point Liquefaction Project in an area that required placement of several feet of fill. National Grid SIR provided guidance to Kiewit on closure of the mw in accordance with RI DEM requirements, prior to placement of the fill material. Kiewit did not follow proper closure procedures and did not notify On-site environmental for required oversight of mw closure procedure.	Kiewit is to notify National Grid SIR with proposal to locate and properly close the ground water monitoring well in accordance with RIDEM requirements. The mw closure shall be witnesses and approved by the National Grid SIR representatives.	11/15/2019	11/15/2019	Contractor	Construction
SR010-RPT-021	Civil 102519- 002	11/1/2019	During the course of the Civil Audit #102519-002 performed at site; Checklist Item 4.0 (c) Has proof rolling been approved by the Geotechnical Engineer in coordination with the Field Representative? The audit team stated that the Geotechnical Engineer was not notified in accordance with Section 4.9 of the Earthwork Specification – 102761-B-CIV-SPC-0001. The audit team was unable to provide documentation supporting the requirement was met.	Proof rolling as described and shown meets the project requirements - M. Oakland Kiewit will b e submits a Corrective Action with Preventive actions for procedural adherence - COB 4-3-2020	4/3/2020		Contractor	Construction
SR010-RPT-022	Civil 102519- 002	11/1/2019	During the course of the Civil Audit #102519-002 performed at site; Checklist Item 3.0 (g) Does the Geogrid meet the requirements as required by Earthwork Specification section 3.12. Documentation showing approval for the Geogrid materials was not provided prior to construction and were subsequently approved by the Geotechnical Engineer on 10/24/2019 which is after the placement of the materials. The audit team was unable to provide documentation supporting approval prior to the start of construction.	Received supporting documentation	1/7/2020	1/7/2020	Contractor	Construction

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause 1	Discipline
SR010-RPT-023		11/4/2019	On October 11, 2019 Kiewit and National Grid attended a shop inspection to witness hydro testing of the L9020-A/B N2 storage vessels located at Chart Ind. New Prague, MN. Upon arriving, the (2) vessels of interest were set up to conduct a cold-stretch test in accordance with ASME Section VIII Appendix 44. The subsequent Off-Site Vendor Surveillance report 191011 per OSSQ stated that Chart conducted a Cold Stretch Test in Lieu of a hydro and further referenced ASME Section VIII Div. 1 Appendix 44 as reference. A review of the 2017 version of Mandatory Appendix 44 states in 44-6.1 (f)the pressure test required by UG-99 or UG- 100 shall be applied after all welding on the pressure retaining parts Kiewit has not provided National Grid written proof that a hydro test was performed and documented on the vessels in question.	Kiewit to provide National Grid proof that a hydro test was conducted as required by ASME VIII Div.1 or have Chart perform a hydro as required. National Grid will be notified as required to attend the testing of the vessels in question.	11/15/2019		Vendor	OSSQ
SR010-RPT-024		12/21/2019	Section 3.10 of the Prime Contract NUMBER 4400005216 requires Kiewit to submit all welding procedures for piping, vessels and equipment performed off-site to Owner (National Grid) prior to start of construction. Kiewit Is required to review the welding procedures for project compliance prior to submittal for National Grid review. The welding procedures for IFS's subcontractor, Transend were not submitted to Owner for approval after review by Kiewit.	Open pending additional information	Close findings log		Contractor	OSSQ
SR010-RPT-025		1/16/2020	The Contract states in, Section 2.23 Inspection and Testing, that Kiewit is to provide the owner in writing no less than (10) Business days, written notice of scheduled dates for the conduct of, and opportunity to witness, the off-site testing. Kiewit allowed IFS/Transend to conduct a hydrotest of the Feed Gas Filter without providing National Grid proper notification of the test	Open pending additional information	Close findings log		OSSQ	OSSQ
SR010-RPT-026		2/5/2020	Regen Gas Heater LDE-1021A tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with minor pit like indications showing a measured wall loss. In addition during the inspection several tubes were found to have been bent which caused contact between adjacent tubes causing a non relevant indication with one tube was only partially scanned due to the bent condition.	Open pending additional information	Pending Kiewit Decision		Vendor	OSSQ
SR010-RPT-027		2/5/2020	Regen Gas Heater LDE-1021B tube bundle was removed for cleaning and Eddy Current testing to evaluate the condition of tubes from improper preservation. The testing was performed by IRIS NDT and the test results are attached. Two tubes were found with indications. Open tube was bent within the first foot and could not be inspected and one tube had non-relevant indication due to tube to tube contact. See attached report	Open pending additional information	Pending Kiewit Decision		Vendor	OSSQ
SR010-RPT-028		2/27/2020	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.	Open pending additional information	Requires compliance with CAR Procedure		Quality	Quality
SR010-RPT-029		2/27/2020	Kiewit document 102761-B-QLT-PRO-0009 Project Quality Audit procedure states this procedure is to verify the overall effectiveness of the quality program along with proper implementation. It will also ensure work is conducted in accordance with customer's quality expectations including contract, code, jurisdiction requirements and Cherne Project Quality Management system. This procedure applies to all Cherne's project locations as well as shop and manufacturing facilities. Section 20.0 of the Quality Management System revision 3 defines the requirements of both internal and external audits which are required to be performed. As of this date, National Grid has not received any audit notifications or audit reports as required Kiewit QMS revision 3. National Grid has conducted several audits on Kiewit as of this date.	Open pending additional information	4/10/2020		Quality	Quality
SR010-RPT-030		2/27/2020	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 Paterson 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.	Open pending additional information	4/22/2020		Procurement	OSSQ

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause 1	Discipline
SR010-RPT-031		2/27/2020	Fields Point Project Management of Change Implementation process, dated March 15 <sup>th</sup> , 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 and that Kiewit will be responsible for the cost of the training through a back change.	4-20-20 Signed		Engineering	Engineering
SR010-RPT-032		2/27/2020	Kiewit placed backfill on Duct Bank area 7 using (12") lifts. Earthwork Specification 102761-B-CIV-SPC-0001 REV 01 states in Section 4.15 Compaction Requirements that for Trench's the Backfill shall be placed in 6" Lifts.	Kiewit will remove the non-compliant backfill and replace in 6" lifts for the area of Duct Bank 7 and follow the 102761-B-CIV- 0001 Earthwork Specification going forward.	4/2/2020		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 of ther 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 for 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.		procedure required		Engineering	Construction
SR010-RPT-034		3/2/2020	Kiewit QMS rev 3 section 18.3 States "When a nonconforming situation or procedure is detected, the issues is documented and actions are taken to correct or resolve the issue in a timely manner. National Grid has (4) NCR's generated during 2019 without agreed dispositions; (14) NCR's generated during 2019 that are open without closure.	Open pending additional information	Pending further discuission		Quality	Quality
SR010-RPT-035		3/3/2020	National Grid performed an audit on legacy film for the 3886 LD-1000/C Adsorber at the GCAW facility and rejected the Number 4 weld on Nozzle "B" due to chemical stains rendering the film non-compliant with code requirements.	Open pending additional information	Pending NDE Completion		OSSQ	OSSQ
SR010-RPT-036		3/3/2020	Section 2.6 Employees and Key Personnel of the Prime Contract requires Key Personnel to be devoted to the Liquefaction Project for all of the time which is necessary to perform the Work and Contractor shall not remove or replace any of the Key Personnel without the prior written approval of Owner, which approval shall not be unreasonably withheld. Kiewit has on multiple occasions removed and replaced Key Personnel on the Project with new personnel without proper notification and/or approval.	Provide owner with current Organizational Chart that provides names to the positions as noted in Appendix "I", and submit resumes on all Key Personnel that have changed within the last (90) days.	TH will resubmit documents with NCR		Project Management	Project Management
SR010-RPT-037		3/10/2020	The Engineering, Procurement and Construction Contract Number 4400005216 provides requirements for the Contractor to submit documents for Client review and approval. These requirements are addressed in the Scope of Work Section 2.25 and further in Appendix "U". The attached Kiewit TRN # 02088 shows (10) Piping Material Specifications that were revised without providing documents to client for review and/or approval. The attached review history shows an example where Piping Specification 102761-B-MEC-SPC-0083 was issued a Studio Session for revision "A & B" but sessions for revisions "00, 01, 02, & 03" were not issued.	documents that are required to be submitted to owner for	4/10/2020		Engineering	Engineering
SR010-RPT-038		3/24/2020	Section 2.25 Design and Engineering Work paragraph (f) of the contract states <u>As Built Drawings and Specifications</u> 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". 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.	Rejected 4-6-20		Engineering	Engineering
SR010-RPT-039		3/24/2020	Section 3.3 Engineering Design listed under the Scope of Work states : "Development of up-to-date equipment lists, Drawings, specifiation0s, and requisition 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 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		Engineering	Engineering

NCR Ref:	Audit Ref:	Issue Date	NCR Description	Agreed NCR Corrective Action	Date of Agreed Disposition	Date of Closure	Probable Cause 1	Discipline
SR010-RPT-040		3/24/2020	The contract requires Kiewit to develop within (45) days after Full Notice to Proceed (FNTP) a Project Procedure Manual and as the prime purpose of the PPM is to ensure consistent project processes and procedures. National Grid has requested that Kiewit develop a Site Specific Document Control procedure for over (8) months and as of this date the referenced procedure 102761-B-DMT-PRO-001 FPLP Document Control Procedure 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.			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.	4/1/2020		Project Management	Construction
SR010-RPT-042		4/16/2020	Kiewit OSSQ performed a Final Inspection and Document Review on 4-8-2020 at the Highland Tank facility (Report #200408 Highland Tank). There were multiple findings during this visit which included (1) U-1A form requires correction (2) Multiple X-ray reports were found to be non-compliant; missing IQIs, missing "F" markers, missing acceptance noted on report (3) PMI Testing showed low values on nickel composition (4) Missing NDE testing prior to hydro testing (5) Welder Performance Qualification records were found to have various errors. (5) Welding Procedures were found to have typographical errors on the PQR documents.	Kiewit to perform a root cause analysis that shall accompany this NCR. The root cause shall be submitted to National Grid for review and approval and a subsequent discussion shall follow. Additionally a Corrective Action shall be generated as this is a recurring event where documentation review uncovers multiple findings subsequent to a recent OSSQ Inspection. All items as noted in Section "A" are required to be corrected as required to a compliant status with project and code requirements.			OSSQ	OSSQ

#### **Kiewit**

Non-Conformance Log

FPLP

#### Fields Point Liquefaction National Grid

											10-	012				
NCR No.	Description	Recommended Corrective Action	19-Mar-20 STATUS	Type (Internal / Supplier / Client)	Action By	Disposition & Required Actions	Recommended Preventative Actions	Date Issued	Date Disposition Submitted	Rejected	Elevated	Date Disposition Approved	Proposed Closure Date	Date Submitted for Closure	Date Closed	Planned Action
0001	Concrete Driven Pile DP-13 hit an obstruction and shifted during operation and causing pile to be approximately 2.4744" out of tolerance per specification at 6"			Kiewit		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	
0002	approximately 2.4744" out of tolerance per specification at 6" Damage to upper concrete driven pile DP-70 during pile driving activities, damage is just above the Emeca splice plate, resulting in exposed rebar and a 2" crack protuding up the south east side			Kiewit		EOR approval for out of tolerance per specification Rework or Scrap EOR to determine action to be taken per specification 102761-B-	EOR to notify Quality of resolution									
	of the column, extending from the break. During installation of DP 113 the toe of the pile started to walk to the west. Crew attempted to					STR-SPC-0006 section 4.5.4.1.12 Rework		6/6/2019	8/13/2019	N/A	N/A	8/13/2019			8/13/2019	
0003	correct the out of plumbness during driving but could not correct enough to get back in tolerance. As the pile sits now it is 1 3/6" in 4" equating to 2.86% or .86% out of tolerance.			Kiewit		Rejected piles shall be corrected as directed by the engineer of record.		6/11/2019	6/26/2019	N/A	N/A	6/26/2019			6/26/2019	
0004	Regeneration Gas Seperator LDD-1011 was found to have an incorrect coating applied in accordance wir 102761-8-STR-SPC-0003. The original coating was specified as Sherwin-Williams Heat-Flac, Hi-Temp 1200 degree Fahrenheit system. The coatings found to be applied are Sherwin Williams Macropory 646 (Interm.) and Acrolon 218 HS (Finish) 200 degree Fahrenheit system.	Would like to be present at the commencement of painting		Kiewit		Rework Blast incorrect coating and recost 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	6/14/2019	N/A	N/A	6/14/2019	5/1/2020			
0005	Adsober L-1000A was found to have an incorrect coating applied in accordance wi 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 (Intern.) and Acrobic 218 HS (Finish 200 degree Fahrenheit system.			Kiewit		Rework Blast incorrect coating and recost 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	6/14/2019	N/A N/A	N/A	6/14/2019	5/1/2020			NCR will remain open until equipment is re-painted
0006	Adsober L-1000B was found to have an incorrect coating applied in accordance w/ 102761-B-STR- SPC-2003. 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 Macropoxy646 (Interm.) and Acroton 218 HS (Finish) 200 degree Fahrenheit system.	Would like to be present at the commencement of painting		Kiewit		Rework Blast incorrect coating and recoat with approved coating system per specification 102781-B-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/14/2019	N/A	N/A	6/14/2019	5/1/2020			NCR will remain open until equipment is re-painted
0007	Adsober 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 decree Fahrenheit system. The coatings found to ha songlied are Sherwin-Williams Macronovy 640.			Kiewit		Rework Blast incorrect coating and recoat with approved coating system per specification 102761-8-MEC-SPC-0070	Being knowledgeable of specification and verify current drawings before proceeding with any installation and applications of materials.	5/16/2019	6/14/2019	N/A	N/A	6/14/2019	5/1/2020			NCR will remain open until equipment is re-painted
0008	(Intern) and Acroson 218 HS (Finish) 2004 degree Fahrenheit system. Particle Filter US - 1010 A, was bond to have an incorrect costing applied in accordance wi 102761-16-37R-SPC-0003. The original costing was specified as Shewin-Williams Heat-Files, H- ren 1000 degree Fahrenheit system. The costings found to be applied as Shewin-Williams Metropopol 646 (Intern) and Acrobol 218 HS (Finish) 200 degree Fahrenheit system. Particle Filter US - 10109, was bond to have an incorrect costing applied in accordance wi Particle Filter US - 10109, was bond to have an incorrect costing applied in accordance with the system of the system of the system of the system.	Rejected / Does not agree with the disposition Re-coating will be performed to alow NDE to be reworked. Re-coating shall be performed as per 102761-B-MEC-SPC-0069 AND		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.	5/22/2019	1/29/2020			1/29/2020	5/1/2020			NCR will remain open until equipment is re-painted
0009	Particle Filter LDS - 1010 B, was found to have an incorrect coaling applied in accordance w/ 102761-B-STR-SPC-0003. The original coaling was specified as Sherwin-Williams Heat-Flex. Hi-	Rejected / Does not agree with the disposition Re-coating will be performed to alow NDE to be reworked.		Kie - A	OSSQ	Rework	Being knowledgeable of specification and verify current drawings							1		
0009	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 Macropxy 646 (Intern.) and Acroton 218 HS (Finish) 200 degree Fahrenheit system.	Re-coating shall be performed as per 102761-B-MEC-SPC-0069 AND 0070		Kiewit	USSQ	Blast incorrect coating and recoat with approved coating system per specification 102761-B-MEC-SPC-0070	before proceeding with any installation and applications of materials.	5/22/2019	1/29/2020			1/29/2020	5/1/2020			NCR will remain open until equipment is re-painted
0010	Failure to meet pressure testing requirements as outlined in specification NFPA 59A 2001 Edition			Kiewit		Rework Testing plan shall be developed to provide re-testing at Barnhart Hake facility including pressure setting 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	6/18/2019			6/18/2019	6/5/2020			NCR will remain open until re-testing is completed and documentation has been received and reviewed.
0011	Companders K-The equipment maintenance and preservation for the Companders ICS-V200 as required by AP Products and Chemicals, MC: was not tollowed and properly documented. program hardmann and preservation activities during the product of January 42 018 threagh the date of this NCR. Specific requirements in accordance with PFIP-APCI Compander Storage Procedure and Cryadharine preservation action. Checklis Intraliation through 1stru-(2004)01770 Ref. CMD-01778 a. CMD-0177b have not been followed and subsequently documented 210 & K- 220			Kiewit	OSSQ	Rework Consultation with equipment manufacturer and owner to determine inspection steps that work! determine inspection steps that work! determine damage. 	Follow Written procedures	6/19/2019	2/7/2020			2/12/2020				NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.
0012	The equipment maintenance and preservation for the K-131 Nitrogen Recycle Compressors as required by Air Products and Chemicals NIC, was not followed and properly documented. Request have been previously made to produce verifiable documentation that would support proper maintenance and preservation addities Guring the period of January of 2018 through the date of this NCR.			Kiewit	OSSQ	Rework Constallation with equipment manufacturer and owner to determine inspection steps that would identify any potential equipment inspection protective is to be studential equipment of the student encomparising regularements through commissioning. ZABas Coopon media to provide Technician to also for evaluate commission of the studential experiment procession. Researchion inspections of all identified exagement must be performed and report submitted to Koewit and National Grid.	Follow Written procedures	8/19/2019	2/7/2020			2/12/2020				NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.
		Nitrogen Lube Oil Cooler 1CS-E137 Compander Lube Oil 1CS-E10				Rework Consultation with equipment manufacturer and owner to determine										
0013	The equipment maintenance and preservation for Air Cooled Heat Exchangers E-2131, E-2141, E- 2151, & E-2135 required by Air Products and Chemicals NC. was not followed and propenly documented. Request have been previously made to produce verifiable documentation that would support proper maintenance and preservation activities during the period of January of 2018 through the date of this NCR.			Kiewit	OSSQ	Impection steps that would identify any potential equipment demage. 1. New preservation procedure is to be submitted for both off-site and on-alte storage encompassing requirements through commissioning. 2. Quarterly preservation impections of all identified equipment must be performed and report submitted to Klewit and National Grid.	Follow Written procedures									
								6/19/2019	2/7/2020			2/12/2020				NCR will remain open until we have seen that the "New" preservation procedure has been implemented and recorded.
0014	As Kiewit was cutting off piles to elevation the first, two or three feet, voids in top of concrete piles were discovered on two separate piles with numbers mentioned in the Reference Documentation			Kiewit		Repair Repair to Standard - Recommend using Sikadur 42, Grout-pak Pt,	Kiewit's Concrete Engineer is communicating to Otdcastle (Supplier) to remedy the cause and ensure voids don't occur again.	0.07	0140-77-77		N/A	046		1	0144	
0015	above. Pile iniatally 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			Kiewit		per manufatures recommendations to fill voids. Scrap Drive another pile within 28" (center to center) in any dircetion of	Uldcastle will be doing a training with their staff. Unknown. We believe it was a flaw with the concrete that was not	8/27/2019	9/10/2019	N/A		9/10/2019		1	9/11/2019	
0010	chipped we continued driving to grade.					the pile that cracked.	visible to the naked eye. To	6/27/2019	7/8/2019	N/A	N/A	7/8/2019			7/8/2019	
0016	14" Pre-Cast Pile were cut off short by 2 inches to 3 inches out of Tolerance. Specification Cut-off tolerance shall be within 1 inch of the required elevation shown in the contract documents.			Kiewit		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.	cut lines.	7/10/2019	7/15/2019	N/A	N/A	7/15/2019			9/11/2019	
0017	Air Content was observed as being 3.3% per the required 4.5%-7.5%. Resulting in failure per the mix design.		Draft complete confirming Use-As-Is. EOR approval targeted for 20-Mar- 20.	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	3/20/2020							KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.
0018	Air Content was observed as being 4.0% per the required 4.5%-7.5%. Resulting in failure per the mix design.		Draft complete confirming Use-As-Is. EOR approval targeted for 20-Mar- 20.	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	3/20/2020							KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.
0019	On September 17th 2019 a quality document and NDE review was performed at GCAW shop in Humble. TX. Attendees included, Robert Porbe, Alex Devine, Robert Johnson, Gene Johnson, and Al Norlegis. It was discovered during this review that the volumentic camunation records and Box. Viti and ASBE Sex. V requirements including that roll multic. In Im, quality, Bind eviany, I/O placement and identification, etc. Reader sheets / Reports were found to not meet minimum requirements as per ASME Sex. V		Need Robert Johnson to billow up with Vendor and Al	Kiewit	OSSQ	Rework to Acceptable Bandard Volumeic commission to be performed in conformance with code and contractual requirements - NDE must be reperformed in compliance to the contract - NDE provokanes and operator qualifications must be submitted to review. 	Proper NDE review must be performed by supplier to assure conformance of sub-verdor to code and contractual requirements. CSSI oversight of proper film and doumentation reviews performed during in-process inspections.	9/30/2019	11/15/2019	NGWP 11/21/2019						Need DSSQ by work with Vendor and Authorized Impector to provided documentation as required by codes of construction. It here are welds in custoling are not subject to these requirements (rife Shods) then that needs to be part of the egalamation.
0020	Fill materials were brought on-site from the PJ Kealing quarry, it was discovered after dumping the load the 1 12 <sup>2</sup> dense grade material was unapproved and would not meet the standards for FPLP.			Kiewit		Scrap Kewit to take another test sample from the stock pile at PJ Kesting as well as withress an in-process size analysis in conjunction with National Crirl's Special Impector. If material is deemed unsubable for use the stock sector and the stock of the stock and the delivery of unsultable III.	Action to prevent recurrence: Kewit has communicated to the vendor that any new materials and previously tested and approval from P / Kamigy solici, ite hot previously tested and approved before use. Kiewit will be conducting random visits at PJ Kesting's Quarry.	10/9/2019	11/23/2019			1/13/2020			1/13/2020	

	Kiewit					Non-Conformance Log	FPLP								
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0021	Craft proceeded cutting 16° concrete driven piles 5871-D-DP-25 & 5871-D-DP-26 without confirming pile cutoff elevations accordingly, resulting in two piles approximately 18° below actual devation.			Kiewit		Use-AE-16 All pile cutoffs haulted until survey marks pile cutoff elevations in front of pile cutifing crew and per RFI-000075, attached.	Action to prevent recurrence: Have survey crew mark each individual pile then lie with green flagging around piling signifying pile cutoff elevations were marked before commencing cutting of pile.	10/15/2019	11/23/2019			1/10/2020		1/10/2020	
0022	Upon cutting off of the 16° driven concrete piles it was found that the tension connector tubes were not in the correct location within the pile per Dwg. 102761-8-00-0000_STR-SF-6021 Rev.3 Gen. Notes 8. has a tolerance of +16°			Kiewit		Use-As-Is Engineering to provide recommendation and path forward.	The lack of support templates being used during fabrication. Kewit has advised the fabricator of the findings and advised them of the need for additional support. Kewit will also be preforming a shop visit to ensure the fabricator has addressed the issue.	10/16/2019	1/8/2020			1/16/2020	4/17/2020		This NCR should be ready to close. Tommy H Useon R. to gather revised engineering documents to facilitate closure of NCR and present to NG week of 3/16/2020. Walking to receive updated Drawing form Eng. 4/14/2020
0023	During review of Duct Bark 5, Sections 1, 2, 8 3 - the undergound utility warning tape installed is, 3" wide and approximately 100" total placed. Per specification 10276-Ib-CN-SPC-0001; states in section 3.10, "Tape shall be six (6) inches wide."			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-CN- SPC-0001	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			1/23/2020		1/23/2020	
0024	Material delivered on-alle from P.J. Keatling was a new material (not existing) which was tested an failed to meet the requirements per specification 102761-8-CN-SPC-0001 section 3.1			Kiewit		Reject/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 contine to be monitored and P.J. Keating is to clearly segerate Kiewit's approved stockpile from any other new materials.	10/24/2019	1/14/2020			1/14/2020		1/14/2020	
0025	Attsa Copco Air Cooled Heat Exchanger was pressure tested to 1.3 instead of the 1.5 required	<ol> <li>Re-testing will be performed at XXH to 1.5 X MAWP. Kiewit and National Grid will be in attendace for testing.</li> </ol>		Kiewit		Rework to Acceptable Standard Retest Heat Exchanger to correct Pressure	Verify the supplier follows test requirments	11/1/2019	1/10/2020			1/14/2020		1/14/2020	
0026	The 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 kepl of the monitoring, NCR assigned to Taylor Forge	<ol> <li>New preservation procedure shall be submitted and approved. Inspections will be conducted weekly and documented. Inspection documentation will be submitted monthly. 2100% Internal VIII bile performed at time of re-work, borescope will be required where applicable. 3.17 the hall be submitted by UDPT grider Forge inducting VT hold point and final inspection of vessels before shipment.</li> </ol>	Tommy to check on status. NG has never responded.	Kiewit	OSSQ	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	11/23/2019						Tommy H. to check with NG on their acceptance of proposed disposition. No response has ever come from NG on this.
0027	During concrete testing prior to pouring Duct Bank 5 - Section 4, Feragh 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 Can was used to verify temperature extensily at 58 deg. F, which is not acceptable per ACI 301/ASTM C1084.	Ask EOR to review and accept concrete as-is.	Draft complete confirming Use-As-Is. EOR approval targeted for 20-Mar- 20.	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: Kiewil to Inspect Fenagh's testing equipment prior to each test to verify all equipment is on-alle before leating is performed, regroup the team and discuss stop work authority. Fenagh to review their procedures internality with all technicians.	11/5/2019	3/1/2020			3/27/2020		3/27/2020	KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.
0028	During the nutling operation of concrete piles, survey (A-Pilus) reported pile (5051-LDP-09 was out of approximately (B below deviation, Proposed Lucad*IH 37 K Actual=13.17. Piles in that and grade-beam had been being out off at approx. 318 as the beations was below grade. As made on the other adjacent piles were preliminary cuts and not final cuts.	Abandon driven pile 5963-L-DP-09 and replace with Micropile(s) per direction of EOR.		Kiewit		RejectScrap Plie cut short had been marked by survey, verified cut-off location approximately 81 in the air. Slurry from adjacent pile cuting may have obscured the pile cut off mark.	Using piledriver 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.	11/9/2019	11/23/2019			1/21/2020		3/9/2020	
0029	After groufing operations were completed on micropiles 5850-C-MP-08 & 5850-C-MP-28 centerbars being placed ended up learing casing.		Engineering will continue review of the NCR following completion of the proof lesting. Disposition largeted for 27-Mar-20.	Kiewit	Engineering	Use A+1s After grouting, the certerbara generally extends from the ground authors to the solid at the pile tp. Notewer, almos approximately 25 to 30 text of carsing has been pulked, the casing does not extend to be generally certerbara to be the universite to the transmission of the carsing from dropping back does the here benefits, after due to the control from dropping back does the here benefitted, either due to extend the target or the casing in place until this sol of accident and undetected shifting here to the carsing in place was the correction of the endormal of the control from the local method. The control of the certer the cap has placed and the pile is no longer being monitored (due to locals imposed by the casing) the colored of the certer the after.	Fabricate wooden templates to ensure center bar is centrally located within tolerance of micropile casing / b addition, we have developed a method of winny the rod in the center using the holes in temporary using that todd is terasing. Either method is anticipated to eliminate this problem. We will also measure the annular distance between the bar and the casing.	12/2/2019	3/20/2020			4/10/2020			KDE currently reviewing issue and will provide proposed disposition no taler than 3/26/2020.
0030	During driving of concrete piles an obstruction was encountered and forced two piles (5900-D-DP 01 & 5900-D-DP-06) out of tolerance and one (5900-D-DP-01) of the two piles out of plumb.			Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/18/2020			2/27/2020		3/9/2020	
0031	During driving of concrete piles obstructions were encountered and forced seventeen (17) piles           (S371-D-DP-04, S371-D-DP-04, S371-D-DP-24, S371-D-24, S371-D-24, S371-D-24, S371-D-24,		Revised IFC drawing complete and Klewit Engineering disposition referencing updated drawings to be provided to Klewit Quality on 19-Mar 20.	Kiewit	Engineering	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	KOE will have EOR sign off on disposition weak of 3/16/2220. Expect to use as is and close NCR at same time.
0032	During driving of concrete piles obstructions were encountered and forced seven (7) piles (5820-F- DP-05, 5820-F-DP-12, 5820-F-DP-21, 5820-F-DP-28, 5820-F-D	2 2 2	Revised IFC drawing complete and Kiewit Engineering disposition referencing updated drawings provided to Kiewit Quality on 18-Mar-20.	Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/19/2020				4/17/2020 4/14/2020		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 3/19/2020
0033	During driving of concrete piles six (8) piles (5820-F-DP-15, 5820-F-DP-24, 5820-F-DP-25, 5820-F-DP-28), dd nd meet the blow coart (driving rateria) per 201 entrodment.	F.		Kiewit		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	Ulauder er	1/21/2020	
0034	During driving of concrete piles obstructions were encountered and forced one (1) pile (5640-F-DF 03) out of talerance.	2	Revised IFC drawing complete and Kiewit Engineering disposition referencing updated drawings provided to Kiewit Quality on 18-Mar-20.	Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hil an obstruction.	1/8/2020	3/19/2020 Resubmit 3/23/20			3/27/2020		3/27/2020	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 3/19/2020
0035	During driving of concrete piles obstructions were encountered and forced five (5) piles (5560-G- DP-01; 5560-G-DP-03; 5660-G-DP-048; 5560-G-DP-068; & 5560-G-DP-08; ) out of Idenance.		Revised IFC drawing complete and Klewit Engineering disposition referencing updated drawings provided to Klewit Quality on 18-Mar-20.	Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/19/2020				4/17/2020 4/14/2020		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 3/19/2020

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0036	During driving of concrete piles obstructions were encountered and forced one (1) pile (5980-HDP- 09;) out of tolerance.		Revised IFC drawing complete and Kiewit Engineering disposition referencing updated drawings to be provided to Kiewit Quality on 19-Mar- 20.	Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/20/20 Resubmitted 3/23/20				4/17/2020	4/14/2020		KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.
0037	During driving of concrete piles obstructions were encountered and forced two (2) piles (5952-L- DP-03 & 5952-L-DP-09) out of tolerance.			Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/18/2020			2/27/2020			3/10/2020	
0038	During driving of concrete piles obstructions were encountered and forced two (2) piles (5953-L- DP-19 & 5953-L-DP-21) out of bierance.			Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/18/2020			2/27/2020	4/17/2020	4/14/2020		This NCR should be ready to close. Tommy H.Uason R. to gather revised engineering documents to facilitate closure of NCR and present to NG week of 3162020.
0039	During driving of concrete piles obstructions were encountered and forced one (1) pile (5951-L-DP- 14) out of tolerance.		Revised IFC drawing complete and Klewit Engineering disposition referencing updated drawings to be provided to Klewit Quality on 19-Mar- 20.	Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	3/20/20 Resubmitted 3/23/20				4/17/2020	4/14/2020		KOE will have EOR sign off on disposition week of 3/16/2020. Expect to use as is and close NCR at same time.
0040	During driving of concrete piles obstructions were encountered and forced two (2) piles (5870-M- DP-03 & 5870-M-DP-09) out of tolerance.			Kiewit	Engineering	Disposition and Action to be taken per engineering's recommendation and path forward.	Piles hit an obstruction.	1/8/2020	2/18/2020			2/20/2020			2/20/2020	
0041	Upon cutting off of the 16° driven concrete piles it was found that the lension connector lubes were not in the correct location embedded in the pile, per Dwg. 102701-8-00,000-STR-SF-6021 Rev 3 Gen. Notes 8. has a laterative of + 16°			Kiewit		Engineering to provide recommendation and path forward.	The lack of support templates being used during fabrication. Klewit has advised the fabricator of the findings and advised them of the need for additional support. Klewit will also be preforming a shop visit to ensure the fabricator has addressed the issue.	10/16/2019	1/8/2020			1/16/2020	4/17/2020			This NCR should be ready to close. Tommy H.JJason R. to gather revised engineering documents to facilitate closure of NCR and present to NG week of 3162020.Watting to receive updated Drawing form Eng. 41/42020
0042	ST70-MMP-03 was drilled an additional 5 feet in depth total (if achieved a tip elevation of approximately -78.8 feet and the minimum required elevation was -70 feet). As scheduled, 25 feet of eating on the pile, which is 6.4 feet more than the casing levely given for the pile on Steel (1272). The 54-00.000-STR-SF-SF2. The blearance for the casing levely given for the pile on Steel (1272). 54-00.000-STR-SF-SF2. The blearance for the casing levely given for the pile on Steel (1272). 54-00.000-STR-SF-SF2. The blearance for the casing levely of clearance 3 feet. Due to levely of the subsequent casing sections, pulling an additude 3 feet of casing out (30 total) was not a madity available option for this pile.			Kiewit	Engineering	Started drifting marcingle SRF0-MMM-93 on (2211% The plane in Area M were all other with 100 7 d calls, some with different expansion ju order to utilize all free calling available on table. The SRF0-MM-94 bits was upported to be different to the same expension ju order to use the calling already available at the different to be set of the same set of the same set of the sequencing. In order to use the calling already available at the different to be set of the same set of the same set of the used on the period to be set the calling already area of the sequencing. In order to use the calling already area of the used on the period to be set of the same set of the used on the period to be set of the same set of the same of the same set of the same set of the and the same set of the same set of the same set of the same set of the same set of the same set of the same set of the same set of the same set of	Following a long weekend/holiday, bol-box talks will be conducted with call during their moning sketch and tex activities prior to starting work.	1/9/2020	2/7/2020			2/12/2020			3/9/2020	
0043	After defiling Micropile SI70-MMP-07 to full depth (901), the operation was shull 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 calification of same day grout requirement. Recommendation per RFI was not followed per the Engineers approved resolution.			Kiewit	Engineering	Use-A-Is Bard and the second s	Action to prevent recurrence: Construction shall not proceed with an issue without some written form of documentation.	1/31/2020	1/31/2020			2/3/2020			3/11/2020	
0044	During the demolition of an existing slab for the propane foundation Duct Bank #5 was impacted with the excavator mounted hammer. Resulting in the concrete from the Duct Bank being damaged and a 4* conduit being randwed.			Kiewit	Construction	Kiewit will demo the concrete around the conduit to expose the	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:11 New Ground Disturance 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	3/24/2020							NG requesting a RCA to be performed for the safety factor
0045	Micropile 5871-D-MP-02 was found durning as-builts to be drilled out of tolerance	Use-As-Is		Kiewit	Construction		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								
0046	Micropile 5570-8-MP-35 and 5570-8-MP-37 was found durning as-builts to be drilled out of tolerance	Use-As-Is		Kiewit	Construction		moving with 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								
								4/14/2020								