

Project Title: KOG Midway Booster Pump Station
PU-18-24

Reporting Date: **June 7, 2019**

1. Project Overview

Project Managers: Clay Anderson
Project Location: SOR, Keene ND

2. Project Status

2.1. Performance Indicator Explanation

- Safety: Non-Hess incident. Stolen equipment, damage to pad, new piping, and dozer left on top of butte. Similar to previous incident.
- Schedule: No schedule update. High temps within Nord gear reducer under evaluation.
- Quality: N/A

3. Summary of Progress

3.1. Key Accomplishments since last reporting

- 3-Jun
Site walkdown (Hess stakeholders, MN Limited) to formalize shutdown scope of work. MN Limited mobilized to site, KLJ staking of building corners and interface between pipeline ROW and on pad facilities
- 4-Jun
Hydro-vacing on location, delivery of transformer base
- 5-Jun
Clearing of ROW and stringing pipe
- 6-Jun
String pipe on ROW and delivery of service disconnect stands. Hess QA in pump vendors shop for performance test. Automation/Programing PCN submitted for C&E changes.
- 7-Jun
Hydro-vacing on Midway valve set. Welding of pipe. Hess QA in pump vendors shop for performance test. Pumps performance aligns with requirements. The Nord gear reducer running "hotter" than allowed. NOV/Moyno/Hess engineering team to determine path forward. Pumps will not ship until issue is resolved. Currently no expected shipment delay, additional information required on Nord gear reducer to understand schedule impacts. Engineering discussion on Monday June 10th for path forward.
- 8-Jun
Non-Hess incident, MN Limited equipment stolen/moved. Damage to Midway Pad, strung pipe, US Forestry Land. MN Limited D9 dozer parked on US Forestry land. Local authority called. Interfacing with Hess Global Security team for potential security solutions. All internal Hess groups notified of incident. PSC to be notified. McKenzie county sheriff department requested to perform additional patrols in the area.

3.2. Major Activities Planned for next reporting

- Pump Shipment (dependent upon pathforward on Nord gear reducer)
- Welding and installation of suction/discharge piping
- Notify MEC for Utility power install

4. Key Risks / Issues

| # | Risks | Impact | Likelihood | Mitigation Strategy |
|---|--|--------|------------|--|
| 1 | Tie in to Launcher/Receiver | Medium | Low | Develop execution plan with Op's and GC |
| 2 | Road Restrictions | Medium | Low | Crowley Fleck engagement to quantify risk |
| 3 | SIMOP's with accelerated county road construction & KOG construction | Medium | Low | Crowley Fleck engagement to quantify risk |
| 4 | McKenzie Electric Cooperative | Medium | Low | Transformer in MEC yard, understand MEC's execution strategy |

5. Project Schedule Summary

| Milestones | Planned Date | Revised Date | Actual Date | Comments |
|---|--------------|--------------|-------------|---|
| Civil construction complete | 29-May-19 | | 31-May-19 | On-target |
| MN Limited Mobilization | 3-Jun-19 | | 3-Jun-19 | Pushed due to John Crane, Moyno & 3rd party critical parts |
| Pump Performance Test complete | 8-Jun-19 | | 8-Jun-19 | |
| Pump shipment date | 12-Jun-19 | | | Nord gear reducer dependent |
| Pump arrival | 24-May-19 | 20-Jun-19 | | Pushed due to John Crane, Moyno 3rd party critical parts, and Nord gear reducer heating concerns. |
| KOG Shutdown for piping tie in complete | 25-Jun-19 | | | |
| Start-up | 27-Sep-19 | 30-Sep-19 | | Pump delay |

5.1. Schedule Comments

- NA