
WEEKLY REPORT No. 020
November 30th to December 04th, 2020

PROJECTS:

PO No. TPS 20-006 TERMOPUERTOSOLO 2 - BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR

PO No. TS1 20-009 TERMO SOLO 1 - PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS

1. PURPOSE

The purpose of this document is to report to Client Upper Management the current weekly progress related with the projects:

- TERMO SOLO 2 BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR.
- TERMO SOLO 1 PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS.

2. ABBREVIATIONS

- TERMOPUERTO SOLO 2 – TS2
- POWER ELECTRICAL SUBSTATION TS2 – SE2
- POWER ELECTRICAL SUBSTATION TABOR 115kV, CELSIA EPSA TO RECEIVE TL2 – SE TABOR
- TERMO SOLO 1 – TS1
- POWER ELECTRICAL SUBSTATION TS1 – SE1
- POWER ELECTRICAL SUBSTATION SAN MARCOS 230kV, ISA TO RECEIVE TL1 – SE SAN MARCOS
- TRANSMISSION LINE 1 FROM TS1 TO SE SAN MARCOS – TL1
- TRANSMISSION LINE 2 FROM TS2 TO SE TABOR – TL2
- MOTA-ENGIL – ME
- SCOPE OF WORKS – SoW
- RFP PACKAGE No. CC03-AA-SOH-RFP-107-8003. POWER ELECTRICAL FOR 115 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 115kV
- RFP PACKAGE No. CC05-AA-SOH-RFP-107-8005. POWER ELECTRICAL FOR 230 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 230kV
- EPA - ESTABLECIMIENTO PUBLICO AMBIENTAL DE BUENAVENTURA.
- ISA – ISA INTERCOLOMBIA HIGH VOLTAGE NATIONAL TRANSMISSION SYSTEM OPERATOR.
- CC-SKC – CARTON COLOMBIA SMURFIT KAPPA COLOMBIA
- CON – CONCEJO NACIONAL DE OPERACIÓN
- DIAN – TAX GOBERMENT ENTITY. DIRECCION DE IMPUESTOS Y ADUANAS NACIONALES.
- LNTP – LIMITED NOTICE TO PROCEED.
- CVC – CORPORACIÓN AUTÓNOMA REGIONAL DEL VALLE DEL CAUCA
- GRB – GRUPO EMPRESA DE ENERGIA DE BOGOTA. OWNER PROJECT TL 500kV ALFEREZ – SAN MARCOS.

3. POINTS OF ATTENTION

3.1 XM AUDITS

- The project should focus on the progress evidences to support the next XM audit on December 2020.
- TS1 and TS2. LPG fuel logistics infrastructure. Evidence of the progress with the Port LPG infrastructure should be demonstrated or an alternative option need to be considered in order to comply with the fuel audit requirement.

3.2 EPC PORT CONTRACT ME

- The ME EPICS Port Contract and the LNTP signatures are pending to be completed.

3.3 TS2 – LT2 – SE2 – SE TABOR – BUENAVENTURA

- The EIA was submitted to EPA on Oct 19th. It is pending to receive payment instructions from EPA and SeaOne should be ready for payment confirmation.
- RFP EPC 115kV proposal from JE Jaimes was received on Dec 01st. Edemsa has not confirmed the proposal submission date.
- The Wartsila EPC LNTP with the engineering scope of work is pending to be fully executed.

3.4 TS1 FACILITIES

- ME submitted the proposal but it has not been received by SUMED. It is pending to receive SeaOne instructions.
- RFP document to invite other bidders is under preparation. Proposals from bidders will take at least 2 – 3 months.

3.5 TS1 – LT1 – SE1 – SE SAN MARCOS – YUMBO

- EIA review process did not started formally on Nov 18th, some particular adjustments needs to be done to formally start the review process before Dic 09th.
- The RFP EPC 230kV. Pending to confirm proposal reception date from JE Jaimes and Edemsa.
- GEB 500kV crossing over TL1 230kV TS1 Project. A meeting with GEB has been scheduled by Dec 09th to discuss the situation.
- The UPME submitted response about the Interconnection Study. Considering these conditions, a regulatory and legal strategy should be implemented in order to demonstrate to XM that external conditions are not under control of SeaOne to comply with TS1 COD (Commercial Operation Date) (letters or communications to XM, UPME, CREG, Celsia, ISA and GEB).

3.6 FREE TRADE ZONE AREA

- For the Puerto Solo Port, Termo Puerto Solo TS-2 and Termo Solo 1 TS-1 Free Trade Zone Contracts (FTZC) it is required to perform some architectural drawings for the Power Plants and the offices / DIAN buildings. It is a requirement for contract signature process.
- The LNTP Exhibit to be issued to ME for each package should include this works.
- It is suggested to move forward with other contractor to develop this scope of work.

4. CURRENT STATUS

4.1 EPC PORT CONTRACT MOTA-ENGIL

- The adjusted proposal including wharf reduction 209x76 m2, tanks capacity increasing for TK1 and TK2 from 100KBBL to 110 KBBL, additional tanks for TKx=50KBBL biodiesel, TKy=50KBBL ethanol considering size of d 26.7m x h 14.25m and Flare relocation was received by SeaOne but not by SUMED.
- It is SUMED understanding that ME present another proposal simplifying the pier just with access trestles, berthing and mooring dolphins, pipeline structural support. This will be phase 1A. The phase 1B will be the rest of the scope of works.
- The LNTP works in a purchase order (including geotechnical works) could be issued on Jan, 2021 and the contract on Feb, 2021.

4.2 WARTSILA EPC POWER PLANT

4.2.1 TS-2.

- There are pending activities to be closed with Wartsila because of lack of response by ME:
 - Interface Management.
 - Updated layout, Dynamics load impact of the proposed engines and site handover document for the reception requirements of the power platform.
 - The causeway and power plant platform are separate structures. Considering the exercise required for the heavy transport of engines, confirm if it is possible to drive from the causeway directly to the platform at desired location.
 - Power plant platform information related to calculations.
 - The response spectra on platform level.
- Long lead items need to be identified and the estimated date for supplies at site is required from Wartsila for:
 - Engines manufactured on Oct 2021 if NTP issued on Jan 2021.
 - Power electrical transformer 13.8/115kV.
 - Generator 13.8kV.
 - Gas vaporizer.

- GIS Power Electrical Substation: Disconnectors, switchgear, current transformer, potential transformer, surge arrester and similar for 115kV.
- Exhibit 9. Performance guidelines to Wartsila to be agreed between SeaOne and Contractor considering the compliance in the performance test of the Acuerdo 1330 Colombian regulation requirements.
- LNTP works in a Purchase Order to be submitted to Wartsila considering preliminary works in engineering and project management documents.

4.2.2 TS-1.

- Once the interface list for TS-2 has been closed, the same exercise should be completed for TS-1.
- Long lead items need to be identified and the estimated date for supplies at site is required from Wartsila for:
 - Engines manufactured on Oct 2021 if NTP issued on Jan 2021.
 - Power electrical transformer 13.8/230kV.
 - Generator 13.8kV.
 - Gas vaporizer.
 - GIS Power Electrical Substation: Disconnectors, switchgear, current transformer, potential transformer, surge arrester and similar for 230kV.
- Power electrical substation 13.8/230kV configuration needs to be analyzed considering: The current bid is considering a simple bar configuration. The simple + transfer bar, increases the reliability and availability of the power plant. The power electrical transformers 3 phase 13.8/230kV 140MVA and 120MVA (2 units with no backup) are considered in the bid. If there is a damage in one power transformer the commitments of power generation could not be complied. 6 units of an autotransformer 1 phase 13.8/230kV to complete 140MVA and 120MVA + 1 unit backup could be an option to speed up fabrication, transport to site, installation and increase reliability – availability.
- Geotechnical local quotations considering Wartsila technical specification were requested to local specialized bidders. No updated quotations up today have been received. Piling foundations will be required.

4.3 O&M POWER PLANT CONTRACT

- It is pending to request more information about O&M strategy with SeaOne.

4.4 CQS - EASEMENT NEGOTIATION

4.4.1 TS-2.

- TL2. Poles 1 to 7. No comments under control.
- TL2. Pole 6 to 7 permit over the El Piñal Bridge and Calle 6 to be obtained with INVIAS. It is pending to execute this activity.
- TL2. Pole 7 underground to SE Tabor. Easement permit for underground route to be obtained with INVIAS. It is pending to execute this activity.

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- TL2 inside El Tabor Power Electrical Substation permit and easement is included in the interconnection agreement with CELSIA EPSA.

4.4.2 TS-1.

- Easement negotiations should start once the appraisal of the easements has been completed.
- Easement negotiations scope of works is not included in CQS scope of works.
- The appraisals crew were at the field and identified the following existing infrastructure interfering with the alignment:
 - LTS-3 and LTS-4. It is required to relocate a guardhouse.
 - LTS-17 and LTS-18. It is required to relocate a warehouse.
 - LTS-22 and LTS-23. It is required to relocate a guardhouse.

This needs to be agreed with land owners in order to define if it is going to be included in the EPC Contract or will be included in the easement negotiation compensation.

4.5 PERMITTING

- Permit action tracking document is ongoing and weekly populated in order to identify all permits for the project.
- It is pending to establish with Contractors and SeaOne the permits responsibility for each part.

4.6 GERS - TRANSMISSION LINE (TL) AND POWER ELECTRICAL SUBSTATIONS (SE)

4.6.1 SE2 + LT2 + SE TABOR.

- Engineering designs have been completed by GERS.
- It is pending to talk with Celsia about the commitments of the interconnection agreement.

4.6.2 SE1 + LT1 + SE SAN MARCOS 230kV.

- SE San Marcos. Basic engineering designs are ongoing and deliverables are included in SeaOne's ftp site.
- Soil studies for TL1.
 - TLS-1 to TLS-4, TLS-18 to TLS-21, TLS-22 to TLS-24. Completed and report received.
 - TLS-5 to TLS-9A. CC-SKC. Completed.
 - TLS-12. Llano Family completed.
 - TLS-13, TLS-14, TLS-15 Rodriguez Family Completed.
 - TLS-16, TLS-17 Tala Family. Completed.
 - TLS-25. ISA San Marcos Substation. Including position 9 and 1.
 - It is pending to be rescheduled:
 - TLS-10. (+2 additional) Victoria Family.
 - TLS-11. Llano Family.
- Reference deliverables for RFP EPC 230kV.
 - TL1. There are 11 deliverables in the SeaOne's ftp site. The work is in progress.
 - SE San Marcos. There are 29 deliverables included in the SeaOne's ftp site. Technical information of the Interconnection Agreement is required to continue with deliverables.

4.7 RFP EPC 115kV (SE2 + LT2 + SE TABOR)

- ME will not submit proposal for the RFP EPC 115kV.
- JE Jaimes quoted the RFP EPC 115kV without the piling foundations on Dec 1st, 2020.
- Edemsa - Electricas de Medellin will quote the complete scope of works but has not been confirmed the proposal submission date.
- Construir Ingenieria quoted the TL2 piling EPC package on Dec 4th, 2020.
- The next step is to review and make clarifications to the received proposals.

4.8 RFP EPC 230kV (SE1 + LT1 + SE SAN MARCOS)

- ME confirmed they will not submit proposal for the RFP EPC 230kV.
- IA Ingenieros Asociados submitted proposal on Oct 15th.
- JE Jaimes and Electricas de Medellin are pending to confirm the submission date of its proposal.
- The scope of work related to the demolition activities of existing infrastructure interfering with the TL1 is not included yet in the RFP. This is because of it is required a baseline as a result of the field easements appraisal ongoing activities.
- It is pending SUMED to submit comments of the EPC draft contract.

4.9 GEB 500kV TRANSMISSION LINE ALFEREZ – SAN MARCOS PROJECT

- The GEB 500kV project crosses the TL1 in LTS-17 and LTS-18 sector.
- An agreements needs to be reached because if not, the GEB 500kV project will block the TL1 230kV because it could be not guarantee that TL1 could cross under GEB 500kV project.
- If an agreement is not reached with GEB, the construction strategy for TL1 should be secure easements, install a retention pole in LTS-16 and with the current LTS-19 retention pole, execute the foundations, poles installation and execute guard and phase conductor laying as a first priority for TL1 before GEB 500kV project start their cables laying. It will have an additional cost for SeaOne but will secure that TL1 will not be blocked by the GEB 500kV project.
- A meeting with GEB is scheduled by Dec 9th to discuss this point.

4.10 TS1 FACILITIES AND SUPPORT INFRASTRUCTURE

- TS1 support infrastructure refers to 50kBLS sphere for LPG, 12kBLS water tank, trucks unloading bays, workshops, offices and other support infrastructure.
- The ME proposal was received but SUMED has not received it.
- It is recommended to do a technical review of the ME technical proposal in order to identify missing gaps.
- The RFP to invite other bidders is ongoing.

4.11 AQUA Y TERRA / AYT – ENVIRONMENTAL LICENSING

4.11.1 TS-2 Pole 7 to El Tabor Bay Line.

- The EIA for the not licensed section of TL2 was submitted to EPA on Oct 19th.

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- The response to EPA request, related to CAPEX / OPEX costs was submitted during current week.
 - The preliminary settlement expenses is pending to be issued by the Financial Department of EPA. This payment is not required for the EIA submission. It will be required during the reviewing activity.
 - SeaOne should be ready for the payment once the settlement expenses is defined by EPA in order to do the payment.
 - It is pending to execute field archaeological activities. This activities are scheduled to be executed by the second week of December 2020.

4.11.2 TS-1

- It is pending to execute field archaeological activities. These activities are scheduled to be executed by the second week of December 2020 and the schedule to access to site with land owners will be agreed with CQS.

4.12 ISA INTERCONNECTION AGREEMENT

- The Interconnection agreement already signed.
- It is pending to receive answer from ISA about the SeaOne Nov 23rd request. The information stated in the Cláusula Octava – Actividades y Obligaciones a Desarrollar por Las Partes. Numeral 8.2 Item A) Durante la Etapa de construcción. Parts 7, 8 and 9.
- On Dec 03rd,
- On Nov 26th, SeaOne submitted a letter with the 29 deliverables up today of basic engineering Substation San Marcos. The purpose of the letter is to:
 - To put pressure on ISA side in order to comply obligations of the Interconnection Agreement and to not mix it with the BOOM 230kV proposal under preparation by ISA.
 - Obtain ISA comments for the deliverables in order to anticipate the Exhibits 1, 2 and 3 preparation (Under TS1 responsibility but requiring ISA comments and information).
 - Obtain formal response about the bay line to connect in substation San Marcos (It is position 9 our understanding).
- ISA was saying during current week that if they were awarded will use position 1. ISA needs to confirm if technically it is possible. ISA needs to relocate some existing equipment.
- Right now TS1 engineering considers to connect in position 9 because this is the information received and it is technically possible.

4.13 ISA BOOM (BUILD, OWN, OPERATE AND MANTAIN) PROPOSAL

- This applies to the Termo Solo 1 13.8kV/230kV power electrical substation, transmission line 230kV and the bay line for the SE San Marcos.
- SUMED recommends to continue with the other bidders to obtain an EPC proposal and have more options for SeaOne decisions. The O&M contract could be included in a different package.
- ISA confirmed that in December 2020 could submit a proposal for the BOOM contract.

4.14 DECEMBER, 2020 AUDITS REQUIREMENTS FOR TS-1 AND TS-2

- Identify the milestones to be accomplished by the project for the next audit with XM.
- The interconnection agreement with ISA is completed.
- The basic engineering for TL1 and SE San Marcos should be 75% at least by November 2020. This milestone is completed for SE San Marcos but not for TL1.

4.15 FREE TRADE ZONE CONTRACT

- For the Puerto Solo Port, Termo Puerto Solo TS-2 and Termo Solo 1 TS-1 Free Trade Zone Contracts it is required to perform some architectural drawings for the Power Plants and the offices / DIAN buildings. It is a requirement to contract signature process.
- The Free Trade Zone Contract is required for the nationalization of all the imported equipment before the construction stage for the Puerto Solo Port, Termo Puerto Solo TS-2 and Termo Solo 1 TS-1.
- This activity is expected to be included in the LNTP works to be requested to ME.
- Technical engineering works for this package are currently stopped.

4.16 BACKWARD PLANNING. TS-1 AND TS-2

- If Wartsila requires back feed from grid for Power Plant commissioning activities, a backward planning is required to integrate the schedules of the port, power plant, TLx and SEx.
- The planning should include the time line execution of the applicable procedure in CNO for the COD – Comercial Operation Date declaration established in the Acuerdo 1214 and the EACP – Estudio y Ajuste Coordinacion Protecciones regulation.