

**NORWEST ENGINEERING**  
*Consulting Engineers*

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March 12, 2012

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To: All Bidders

Subject:            Addendum 2 – General Contractor Bid, Request for Bid for Targa Sound Terminal located in Tacoma, Washington for the Renewable Fuels Expansion Project

Dear Bidder:

The following addendum is being issued as a revision to the RFB package issued on Monday, February 27, 2012.

- 1.0 Section 1 – Bid Question Resolution - Updates the bidders on resolved questions from the bid walk performed on Wednesday, March 7, 2012 and other emailed questions since the start of the bid time.
- 2.0 Section 2 – Updated Drawings and Documentation - Updates the bidders on the drawings, bill of materials and other supporting documentation.

Please remember to include receipt of this Addendum on the Bid Form along with the date received. If you have any questions regarding this change please refer to the Instructions to Bidders section of the RFB package you previously received or contact me directly.

Sincerely,

Brian Kaiser, PE  
Project Manager

# TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

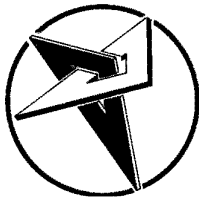
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## Section 1 – Bid Question Resolution

**Project:** Targa Sound Renewable Fuels Expansion

**Location:** Tacoma, WA

**Prepared by:**



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4110 N.E. 122<sup>nd</sup> Avenue, Portland, Oregon 97230  
503-254-0110

Revision	Date	Description	Prepared	Checked	Approved
A	3/12/12	Issued for Bid Addendum	DJH	BCK	BCK

# TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

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## BID WALK QUESTION RESOLUTION

The following document represents the responses to questions and clarification for concerns arisen during the Targa Sound Terminal, Renewable Fuels Expansion Phase 1 Bid Walk performed on Wednesday, March 7, 2012.

- 1) The bid due date has been extended to 5:00 PM PDT on Wednesday, March 21, 2012.
- 2) The construction SWPPP will be the responsibility of the contractor for implementation and will be provided by the Owner.
- 3) The dock line material and construction is under line item 3.1 under the Optional Items in the Bid Form.
- 4) The Civil bid portions should be divided into their respective line items as indicated on the bid form.
- 5) The Contractor shall perform his own take offs and quantities. The Bill of Materials provided are an ESTIMATE only.
- 6) The Owner will provide Contract General Terms and Conditions. It is not included in this addendum.
- 7) The time frame for the Truck Rack expansion has been deemed feasible for completion by July 20, 2012.
- 8) The Contractor is responsible for the piping and installation of the equipment in the Truck Rack area but the equipment will be provided by the Owner. The loading arm is considered equipment and shall not be provided by the Contractor but shall be assembled and installed by the Contractor.
- 9) The Truck Rack will require no civil work. Structural modifications to the concrete will be required. The additive injector shelters will require concrete anchoring per drawing 125-1104-E33, the pipe supports will require modification which require concrete anchoring per drawing 125-1104-E20, and the diesel injection pump relocation will require concrete anchoring. Diesel injection pump will be anchored with 3/8" epoxy concrete anchor rods.
- 10) The conduit will not follow the piping and will require separate supports in the Truck Rack area. It may be feasible to support the conduit off the structural steel component of the roof section but consideration for the fire sprinkler system will have to be taken into account. See drawings 125-814-E1 and 125-814-E2 provided in the bid package and 125-814-E3 provided in this addendum.
- 11) The Contractor will not be required to field adjust the existing Acculoads.
- 12) The pipe supports should be incorporated under the Mechanical Section in the bid form.
- 13) For bidding purposes, the Contractor is to assume no asbestos will be encountered during demolition. Targa will perform investigation and will update the Contractor accordingly.
- 14) Contractor is responsible for all construction survey and staking. It is recommended the Contractor coordinate with Sitts and Hill for survey purposes as they have provided survey for the design portion of this project. The contact for Sitts and Hill is:

Robert Erb  
Email: [roberb@sitts-hill-engineers.com](mailto:roberb@sitts-hill-engineers.com)  
Phone: (253) 474-9449

The contractor may use a third party surveyor instead of Sitts and Hill. The Contractor will be responsible for construction accuracy that relates to the survey.

## **TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION**

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- 15) Requirements for dewatering will follow City benchmarks and be routed to a City determined allowable discharge location. This information will be determined during the permitting phase and provided to the Contractor. Storage options are to be proposed to the Engineer for review and approval.
- 16) The classification of the contaminated soil is to meet MTCA cleanup standards. The base bid is to incorporate all removal of soil as clean.
- 17) The Contractor will provide a work plan to install the stone columns in accordance with the provided specifications.
- 18) Noise constraints will be determined in the permitting phase. It is assumed there will be minimal noise constraints due to the site being zoned by the City of Tacoma as industrial.
- 19) The Transmix tank (T-205) foundation is the same as the other tanks except it does not have stone columns and 1-foot of gravel below the bentomat sand layers.
- 20) Stone columns which impinge upon the City 30" stormwater outfall pipe will be installed in accordance with Storm Main note 1 provided on drawing 125-406-E5.
- 21) The Contractor is to assume no pipe supports for the base bid in areas not currently shown on the drawings as they have not been designed or quantified.
- 22) The only pipes requiring insulation are the 6-inch carbon steel above grade stormwater pipe and the biodiesel lines at the truck rack.
- 23) The only pipe requiring heat trace is the above grade 6-inch carbon steel stormwater pipe. The heat trace will be furnished by the Contractor with all necessary equipment. This equipment includes but is not limited to the heat trace cable, control panel, and conduit.
- 24) Water stops are to be installed on the vertical constructions joints. No waterstop is to be installed in the horizontal footing joint. Construction joints shall not exceed 50-foot spacing. See appended drawing 125-406-E16.
- 25) No slip-dowels will be incorporated into this project. Disregard reference to the slip-dowels in the Civil Scope of Work.
- 26) Concrete strength is provided on drawing 125-1206-E1.
- 27) The hatched area adjacent and south east of the office on drawing 125-406-E6 indicates existing pavers and is not part of the Contractor scope of work.
- 28) The Contractor is responsible to provide all piping, supports and fittings for the construction and implementation of a working foam fire system. The valves, foam proportioning skid, foam storage tank, and reduced pressure detector assembly will be provided by the Owner and installed by the Contractor.
- 29) Secure access wiring will be included in the Bid Form on item 2.18 Electrical scope.
- 30) The Contractor is responsible for coordinating with the City of Tacoma for service disconnection and abandonment of proposed demolished buildings.
- 31) Power poles in the new tank farm area are to be removed per 125-404-E1.
- 32) A separate contract will be awarded for tank fabrication and erection. This is currently in progress and the outcome will be partially based on general contractor input. The bidder is encouraged to contact the tank

## TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

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contractors to receive input on options for the tank construction schedule. The bidder is also to provide the owner with any preferences for tank contractors they would prefer to work with along with justification. This is currently in progress now and a list of potential tank contractors is provided below:

CONTACT COMPANY ADDRESS	Todd Derringer Matrix Service Inc. 500 West Collins Avenue Orange, Ca 92867
TELEPHONE	714-920-3521
CONTACT COMPANY ADDRESS	Paul LoBello Tanco Engineering, Inc 1400 Taurus Court Loveland, CO 80537
TELEPHONE	970-776-4204
CONTACT COMPANY ADDRESS	Gene Tanaka T Bailey 12441 Bartholomew Road Anacortes, WA 98221
TELEPHONE	360-293-0682 x229
CONTACT COMPANY ADDRESS	Lenny Phillips TARSCO, Inc. 11905 Regentview Ave Downey, CA 90241
TELEPHONE	412-904-1334

- 33) The tank contractor will be responsible for the safety of their employees and will provide their own dedicated hole / safety watch as required.
- 34) Targa will have ownership of the quality assurances of the tank contractor. The General Contractor will not have responsibility for the quality of work of the tank contractor.
- 35) If the Contractor is delayed from the construction start date or any other delay occurs the Owner will work with the Contractor to determine what additional measures/costs are warranted to meet the construction end date of October 1, 2012.
- 36) The stormwater pipe electrical heat trace length is approximately 1700-feet not the listed 900-feet.
- 37) Buried conduit will be located north of the utilidor past the space reserved for future utilidor expansion..
- 38) Local disconnects will be required on the four (4) actuated valves.
- 39) The disconnection specification was provided under the Auxiliary power heavy-duty safety Switches section of the Electrical Specification in the bid set.
- 40) The Contractor is responsible for all required temporary construction power and utilities including but not limited to power, air, and sanitation necessary for completion of this project.

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- 41) Job trailers will be located in the western most portion of the Airo property. Final determination of lay down area will be dependent on the progress of the remediation project and schedule. If Airo property is not available at this time, job trailer lay down will be located 50-feet from the shoreline on the west end of the property near the existing barn location.
- 42) The Transmix tank and the 6-inch surge line from the pipeline (6"-TM-001-A1 on drawing 125-1106-E1) will be DOT regulated. The surge line will be the responsibility of the Contractor and the Contractor must adhere to the following regulations:
- CFR 49.195 Transportation of Hazardous Liquids by Pipeline
  - CFR 40.112 Oil Pollution Prevention

Welder qualification requirements are as follows:

- Welders must be qualified in accordance with section 6 of API 1104 or section IX of the ASME Boiler and Pressure Vessel Code.
  - No welder may weld with a welding process unless, within the preceding 6 calendar months, the welder has:
    - (1) Engaged in welding with that process; and
    - (2) Had one welded tested and found acceptable under section 9 of API 1104
- 43) Globally sourced materials are acceptable.
- 44) Total footage of restricted and security fence has been provided. See appended drawing 125-406-E15 in this addendum. The length is an ESTIMATE only.
- 45) Total footage of the containment wall has been provided. See appended drawing 125-406-E2 in this addendum. This length is an ESTIMATE only.
- 46) Traffic control requirements will be the responsibility of the Contractor and must adhere to City of Tacoma standards.
- 47) The required fence gates shall be per appended drawing 125-406-E15.
- 48) The electrical permit for this project shall be the responsibility of the Contractor with information as provided by the Owner.

# TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

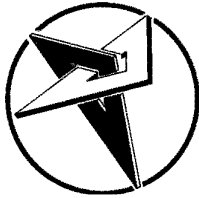
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## Section 2 – Updated Drawings and Documentation

**Project:** Targa Sound Renewable Fuels Expansion

**Location:** Tacoma, WA

**Prepared by:**



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# TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

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## **SURVEY INFORMATION**

Survey information has been provided electronically in AutoCAD format under the file names TM406E3 and TM306E6.

## **ELECTRICAL**

The electrical specification "Attachment G1" has been revised and included with this addendum. Replace Rev A included in the original bid set with Rev B included in this addendum. The following sections have been changed:  
Panelboards – 2.07

Major Changes: Panelboards are required to implement a surge protection device per section 2.07.

Exterior Lighting – 2.02 A,B, and C

Major Changes: Exterior lighting in the containment area is required to be Class 1 Division 2.

The Electrical Scope of Work "Attachment D-2" has been revised and included with this addendum. Replace Rev A included in the original bid set with Rev B included in this addendum. The following sections have been changed or added:

Section 4.1.7, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.4.20, 5.3, and 5.9

The following sections have been deleted:

Section 5.4 and 5.6.

A partial instrument list has also been included as part of this addendum in the document titled "TARGA SOUND Instrument – Device Index".

A PLC Bill of Material for the Contractor provided PLC equipment has been provided in this addendum in the document titled "Electrical - PLC Bill of Materials".

## **STORMWATER**

Stormwater line is currently shown in three separate areas. As clarification the following is the lengths for each portion and the associated bid line item:

438-feet	Carbon Steel 6-inch Buried	Bid Item: 2.8 Stormwater per CSSOW Section 4.10
1680-feet	Carbon Steel 6-Inch Above Grade	Bid Item: 2.1 Mechanical scope

These lengths are the 6-inch carbon steel line from the discharge of Manhole 3 (MH-3) on drawing 125-406-E9 to the Outfall 002 located in the south east end of the site.

All underground stormwater piping is to be considered under the Civil Scope of Work (per drawing 125-406-E9).

All above grade stormwater piping is to be considered under the Mechanical Scope of Work (per appended Above Grade Stormwater Bill of Materials). Replace Above Grade Stormwater Mechanical Bill of Material with the appended Above Grade Stormwater Mechanical Bill of Material.

The stormwater piping has been removed from the Area 01 Mechanical Bill of Material. See the appended Area 01 Mechanical Bill of Material for updated estimates. Replace Area 01 Mechanical Bill of Material with appended Area 01 Mechanical Bill of Material.

## **DOCK**

Dock line from Area 01 (drawing 125-1101-E38) to the end of the dock is to follow the appended Dock Line Mechanical Bill of Materials. Replace Dock Line Mechanical Bill of Material with appended Dock Line Mechanical Bill of Material.



# **TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION**

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In addition, drawings 125-1105-EX, 125-1105-E1X, 125-1105-E2X, and 125-1105-E3X have been included for the demolition required in the dock area. The demolition is to be included in bid item 3.1. The dock line will reduce from a 12-inch to a 10-inch diameter carbon steel pipe in the south end of the site in the area of drawing 125-1101-E38. From there, all piping on the dock will be 10" pipe.

## **GEOTECHNICAL**

A Geotechnical report is provided in this addendum under the document titled "Geotechnical Engineering Services New Product Storage Tanks". The Contractor will not be required to provide their own Geotechnical support.

## **DRAWINGS**

The following drawings have been changed or replaced: Note the major changes and associated bid line item references are to assist the Bidder. They are not the extent of the changes in the appended drawings nor are they an exclusive list of bid line items that require change.

## **Index**

- Replace drawings DRAWING INDEX 1 and DRAWING INDEX 2 with appended DRAWING INDEX 1 and DRAWING INDEX 2.

## **Mechanical**

- Add drawings 125-1105-EX, 125-1105-E1X, 125-1105-E2X, and 125-1105-E3X
  - o Major Additions: Demolition of existing dock lines. Demolition of existing operator shack.
  - o Associated Bid Line Items: Demolition of existing dock lines is to be included in Optional Items 3.1 Mechanical Scope on the Bid Form.  
Demolition of operator shack is to be included in Optional Items 5.1 Civil & Structural scope on the Bid Form.

## **Structural**

- Replace 125-1206-E through 125-1206-E26 with appended drawings 125-1206-E through 125-1206-E26.
  - o Major Changes: Stair crossovers were added and changed. Increased depth of concrete on pipe supports. Truss loading was added to Foam building framing plan (drawing 125-1206-E20).
  - o Associated Bid Line Items: Pipe supports to be included in line item 2.1 Mechanical scope on the Bid Form.  
Stair crossings and crossovers to be included in line item 2.17 Stair Crossings and Crossovers on the Bid Form.  
Foam building changes to be included in line item 2.13 Foam Building on the Bid Form.
- Add drawings 125-1206-E27, 125-1206-E28, and 125-1206-E29.
  - o Major Additions: Stair crossovers were added and changed.
  - o Associated Bid Line Item: Stair crossings and crossovers to be included in line item 2.17 Stair Crossings and Crossovers on the Bid Form.
- Replace 125-1306-E1 through 125-1306-E4 with appended drawings 125-1306-E1 through 125-1306-E4.
  - o Major Changes: Pipe chase was renamed to Utilidor. Pump pad dimensions were altered.
  - o Associated Bid Line Items: Utilidor changes to be included in line item 2.10 Crossing Vault at Roadway on the Bid Form.  
Pump pad changes to be included in line item 2.15 Foundations in Containment on the Bid Form.

# TARGA SOUND TERMINAL RENEWABLE FUELS EXPANSION

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## Civil

- Replace 125-406-E2, 125-406-E6, 125-406-E10, 125-406-E13, 125-406-E15 and 125-406-E16 with appended drawings 125-406-E2, 125-406-E6, 125-406-E10, 125-406-E13, 125-406-E15 and 125-406-E16.
  - o Major Changes: Grading quantities have been updated. Fire monitor plan has been incorporated in the drawings. Outfall plan and profile has been incorporated in the drawings. Containment wall and fencing lengths have been estimated and provided.
  - o Associated Bid Line Items: Grading changes to be included in line item 2.6, 2.7, and 2.15 respectively.  
Fire monitor to be incorporated in line item 2.12 Fire Water Loop.  
Outfall plan and profile to be included in line item Option Items 6.0 Outfall Pipe.  
Containment wall to be included in line item 2.9 Containment Wall.  
Fencing to be included in line item 2.14.

## Electrical

- Replace 125-801-E1, 125-801-E2, 125-816-E3, 125-816-E4, 125-816-E5, 125-816-E6, and 125-893-E4 with appended drawings 125-801-E1, 125-801-E2, 125-816-E3, 125-816-E4, 125-816-E5, 125-816-E6, and 125-893-E4.
  - o Major Changes: Added information for Switchboard 701. Included lighting details.
  - o Associated Bid Line Item: Changes to electrical are to be included under line item 2.18 Electrical scope.
- Add drawings 125-801-E7.
  - o Major Additions: The modifications to MCC-4.  
Associated Bid Line Item: Modifications to MCC-4 to be included in line item 2.18 Electrical scope.
- Replace 125-814-E3, 125-891-E1, 125-891-E2, 125-891-E3, 125-893-E1, and 125-893-E2 with appended drawings 125-814-E3, 125-891-E1, 125-891-E2, 125-891-E3, 125-893-E1, and 125-893-E2.
  - o Major Changes: Added information for the panel layout at MCC-5. Included additional conduit details.
  - o Associated Bid Line Item: Changes to electrical are to be included under line item 2.18 Electrical scope.
- Add drawings 125-801-E8.
  - o Major Additions: The modifications to MCC-5.  
Associated Bid Line Item: Modifications to MCC-5 to be included in line item 2.18 Electrical scope.