BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	)	**GPA DOCKET 25-21**
PETITION OF THE GUAM POWER AUTHORITY TO APPROVE CONSTRUCTION CHANGE ORDER TO PERFORM LEAD ABATEMENT AND ADDITIONAL REPAIRS ON TANK 1934	)	**GUAM POWER AUTHORITY RESPONSES TO PUC COUNSEL INFORMATION REQUESTS**

COMES NOW, PUC Legal Counsel ANTHONY R. CAMACHO, ESQ., who hereby submits the GUAM POWER AUTHORITY's [GPA] responses the PUC Legal Counsel's requests for information in GPA Docket No. 25-21 and said responses are attached herein as indicated.

Dated this 12th day of December, 2025.

Anthony R. Camacho

Anthony R. Camacho, Esq.
PUC Legal Counsel

TABLE OF CONTENTS

Outlook

gpa dkt no. 25-21 tank 1934 change order (lead abatement & repairs)

From Marianne Woloschuk <mwoloschuk@gpagwa.com>
Date Fri 11/7/2025 12:02 AM
To anthony camacho <arcesq@hotmail.com>

1 attachment (82 KB)
GPA Dkt No. 25-21 Contract Cost Analysis (Fuel Storage Tanks).pdf;

Good afternoon, Anthony!

Sorry for my delay in sending this to you. This email is to address two issues: (1) contract cost analysis, and (2) lead abatement costs.

(1) Contract cost analysis.

Under the PUC contract review protocol for GPA, GPA must seek the PUC's prior approval when "GPA estimates that it will exceed the PUC approved level of expenditures by more than 20%". Protocol ¶ 10 (Feb. 15, 2008). Attached is a spreadsheet listing the costs for this project and the regulatory approvals obtained. It shows that GPA has been using the PUC approved level of expenditure to calculate the 20% threshold and that GPA has been seeking approval whenever GPA anticipates that the 20% will be exceeded.

For Change Order 5, GPA used the new PUC approved level of expenditure of $13.8 million to calculate the 20% threshold. GPA did not use the original initially approved amount of $8.9 million because, even though the work on the storage tanks is ongoing, this is not a multi-year procurement with a fixed term and variable annual costs. Cf. Protocol ¶ 4(b) (requiring PUC approval when the aggregate cost estimate for such multi-year contract exceeds 120% of the aggregate cost initially approved by the PUC).

Change Order 5 occurred shortly after Typhoon Mawar struck Guam, at a time when resources were stretched and GPA did not have its own legal counsel and GWA legal counsel was representing both agencies in the midst of overwhelming challenges. Nevertheless, GPA believes that it obtained the necessary regulatory approvals for Change Order 5. If GPA's understanding of how the PUC 20% threshold works is incorrect, kindly let us know?

(2) Lead abatement costs.

Tristar hired an independent third party to verify the work that Tristar said needs to be done. In this case, Tristar hired Industrial Hygiene Professionals, Inc. (IHP), a reputable firm known to GPA. This is the sort of firm GPA would have hired to verify the work proposed by Tristar.

In addition, GPA used a GWA storage tank lead abatement project approved by the PUC as GPA's starting point for the costs of lead abatement. GPA then negotiated with Tristar to get a substantially lower price than GWA was authorized to pay.

Our engineering supervisor is out of the office this week, but when he returns next week, I will have more information about this aspect of the project and will be able to provide you with specific numbers concerning the costs.

Thanks and have a good weekend,

-Marianne

Marianne Woloschuk
Legal Counsel
Guam Power Authority
Gloria B. Nelson Public Service Building
688 Route 15 Mangilao Guam 96913
P.O. Box 2977 Hagatna Guam 96932
671-648-3203 / mwoloschuk@gpagwa.com

GPA Dkt No. 25-21
Fuel Storage Tanks - Contract and Change Orders (Refurbishment and Repairs)
Cost Analysis

Execution Date	Item	Description	Amount ($)	CCU Resol'n	CCU Resol'n Date	Running Total ($)	PUC Limit 120%	PUC Docket	PUC Order Date
12/02/19	Original Contract	main contract	8,969,510.00	FY2019-11	07/23/19	8,969,510.00	**10,763,412.00**	No. 19-01	08/29/19
07/02/20	Change Order 1	Tank 1935 sludge	29,387.56	n/a	n/a	8,998,897.56	below limit	none	n/a
01/22/21	Change Order 2	Tank 1935 sludge	543,813.00	n/a	n/a	9,542,710.56	below limit	none	n/a
08/05/21	Change Order 3	Tank 1935 sludge	1,200,010.00	FY2021-17	07/27/21	10,742,720.56	below limit	none	n/a
05/06/22	Change Order 4	Tank 1935 repair	3,140,489.35	FY2022-16	04/26/22	13,883,209.91	**16,659,851.89**	No. 22-11	05/26/22
07/26/23	Change Order 5	Tank 1934 sludge	1,263,448.00	FY2023-26	08/29/23	15,146,657.91	below limit	none	n/a
2025	Change Order 6	Tank 1934 repair	4,147,691.85	FY2025-26	08/26/25	19,294,349.76	23,153,219.71	No. 25-21	(pending)

PUC-03

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUÅHAN
P.O.BOX 2977 • HAGÅTÑA, GUAM U.S.A. 96932-2977

MEMORANDUM

To: Anthony R. Camacho, PUC Legal Counsel

From: Marianne Woloschuk, GPA Legal Counsel

Date: November 24, 2025

Re: GPA Docket No. 25-21, Petition to Approve Construction Change Order to Perform Lead Abatement and Additional Repairs on Tank 1934

This memorandum addresses the costs of the project in the above-referenced petition. Tristar is GPA's current contractor for the repair and refurbishment of its aboveground storage tanks, including the tank at issue here, Tank 1934.

Tristar hired an independent third-party expert, Industrial Hygiene Professionals (IHP), to perform an initial inspection and test for lead on Tank 1934. *See* Attachment 01 (IHP Report (Mar. 25, 2025), attached to GPA's Petition in Dkt No. 25-21, Ex. 1 at pp. 17-18). IHP is unrelated to Tristar, and is known to GPA as a reputable expert in the field, specializing in this type of project. IHP has been used by other government agencies, such as GWA, when the need for an independent third-party assessment arises. If GPA had been required to engage its own expert to review Tristar's proposal, GPA would most likely have hired IHP. By foregoing additional independent testing, GPA is reaping the benefits of an independent opinion without incurring the expense of obtaining one.

Based on available information, Tristar proposed a lead abatement project at a cost of $1,868,656.31. *See* Attachment 02 (Tristar Change Order (June 17, 2025); this document was not attached to GPA's Petition in Dkt No. 25-21). Through negotiations by our savvy engineers, GPA negotiated the price of the project down to $1,725,119.31. *See* Attachment 03 (Tristar Change Order (Aug. 13, 2025), attached to GPA's Petition in Dkt No. 25-21, Ex. 1 at pp. 12-16). This represents a savings of $143,537.00 as compared with the original price proposal. The rate being charged to GPA amounts to $600.46 per square foot. *See* Attachment 04 (Unit Pricing for Tristar lead abatement project; this document was not attached to GPA's Petition in Dkt No. 25-21).

To gauge the reasonableness of Tristar's price, GPA approached GWA for information about a comparable project. GPA used information provided informally by GWA to compare the lead abatement project of Tank 1934 with a similar GWA lead abatement project involving one of their own aboveground storage tanks where lead-based paint was present. Moreover, GPA's lead abatement project is all-inclusive, and covers the cost of all labor, materials, equipment, and disposal, as well as air monitoring. GWA's project cost likewise included air monitoring, as well as all labor, materials, equipment, and disposal.

GWA's project for lead abatement of an aboveground storage tank had a cost of $400 to $500 per square foot. However, the GWA project cost was based on 2023 pricing. Due to the ongoing effects of inflation, costs have increased and overall prices in 2025 are now higher than in 2023. Thus, the costs of the Tank 1934 project have increased due to inflationary effects.

Finally, GPA's Tank 1934 is about 15 times the size of GWA's tank. The larger tank size entails the use of specialized personnel and equipment and other logistical considerations. These factors necessarily affect the project costs and result in a higher project price.

Using the cost of the GWA project as a baseline comparator, GPA was able to determine that the price GPA negotiated with Tristar was reasonable, given that it entailed more specialist work due to the size of Tank 1934, included additional air monitoring services, and took place under inflationary conditions. GPA acted reasonably in not seeking a third-party opinion due to justifiable confidence in the independent third-party expert engaged by Tristar to evaluate the project.

M. Woloschuk

Marianne Woloschuk

Attachments

EXHIBIT D

INDUSTRIAL HYGIENE PROFESSIONALS, INC.
508 W. O'Brien Drive • Hagåtña, Guam 96910 • E-Mail: info@ihpguam.com • Tel: (671) 734-0749 • Fax: (671) 989-0749

March 25, 2025

Sinuja Shinto
Operations Clerk
Tristar Terminals Guam, Inc.
Physical Address: Agat Terminal Route 2A Santa Rita Industrial Drive, Agat Guam 96915
Mailing/Billing Address: P.O. Box 8210, Agat Guam 96928
Telephone: (671) 565-3302 Ext 302
Mobile: (671) 488-9319
Fax. No.: (671) 565-3909
email: maintenance@tristar-guam.com

Re: Lead-based Paint (LBP) Testing Results – Exterior Tank Shell – Tank 1934

Dear Ms. Shinto:

The following is a summary of the Lead-based Paint (LBP) testing conducted on March 20, 2025. The purpose of the testing was to determine if LBP is present on the exterior tank shell of Tank 1934. The inspection only included areas/components that may be disturbed as per Tristar personnel direction.

Measurements were taken using a SciAps X-550 X-Ray Fluorescence (XRF) spectrum analyzer (serial number: 03548) set in the "PCS Quick" mode of precision with a minimum of 95% confidence. Calibration checks were performed prior to testing in accordance with manufacturer instructions. A total of 18 measurements were collected on representative areas of the tank shell. The ranges of test results are summarized in Table 1.

Table 1. LBP Testing Results – Tank 1934 – March 20, 2025

Item #	Sample Area/Description	Pb-C (Mg/Cm²)	Result
--	PCS Calibration	1.1	Pass
--	PCS Calibration	1.1	Pass
--	PCS Calibration	1.1	Pass
--	PCS Calibration	1.1	Pass
1	Exterior Tank Shell – Metal – Dark Green	0.2 through 0.8	LCP
2	Exterior Tank Shell – Metal – Black	0.1 through 0.6	LCP
3	Exterior Tank Shell – Metal – Light Green	0 through 0.6	LCP
4	Stairs – Metal – Light Green	0.1 through 0.2	LCP
5	Tank Roof – Metal – Dark Green	0.1 through 0.2	LCP
6	Interior Tank Shell – Metal – Pink	0 through 0	Negative

Federal standards (U.S. EPA and Department of Housing and Urban Development) regulate paint containing greater than or equal to one milligram per square centimeter (> 1.0 mg/cm^2) or 0.5 percent (> 0.5%) lead as lead-based paint (LBP). Additionally, the Occupation Safety and Health Administration (OSHA) does not provide a minimum content/concentration threshold which triggers the applicability of the lead standard. As such, any detectable concentration of lead (>0.0 mg/cm^2) on a material may pose an exposure risk if disturbed. Results reported as "lead-based paint" (LBP) indicate a lead concentration greater than or equal to 1.0 mg/cm^2. Results reported as "lead-containing paint" (LCP) indicate that a lead concentration between 0.01 mg/cm^2 and 0.99 mg/cm^2. Results reported as "Negative" indicate a lead concentration of 0.0 mg/cm^2.

Results indicate that lead-containing paint (LCP) is present on the Exterior Tank Shell (Upper, Mid, and Lower), Tank Roof, and Tank Stairs of Tank 1934. Please refer to Table 1 above for details.

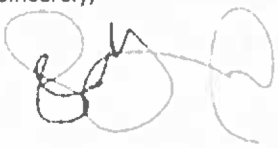
The disturbance of lead must be performed in accordance with OSHA lead standards for construction (29 CFR 1926.62) and US EPA hazardous waste regulations (40 CFR Parts 240-282). The OSHA lead standard includes requirements for worker training, medical surveillance, air monitoring, personal protective equipment, and hygiene facilities. As mentioned above, OSHA does not provide a minimum content/concentration threshold which triggers the applicability of the lead standard.

As such, any detectable concentration of lead (>0.0 mg/cm^2) on a material may pose an exposure risk if disturbed. In addition, any waste generated from the disturbance of these surfaces may be regulated by the EPA as hazardous waste. It is recommended that a representative sample of the waste be analyzed for proper hazardous (or non-hazardous) characterization.

An independent qualified professional (e.g., Certified Industrial Hygienist or Certified Safety Professional) should be contracted to ensure that engineering controls used by the contractor are adequate to prevent lead exposure to unprotected site personnel and the public; personal protective equipment used by site personnel is appropriate; and work is performed in strict accordance with the OSHA lead standard for construction.

Should you have any questions or concerns please feel free to contact me at the above numbers.

Sincerely,



Leanade C. Cabrera, CIE
Inspector Certification# LBP-I-I185593-3

TTGI/PRJT/OUT/JUNE/2025/010/R1

June 17, 2025

Mr. Vince J. Sablan, P.E.
Manager of Engineering
Guam Power Authority (GPA)
P.O. Box 2977
Agana, Guam 9693-2977

CC: Mr. Manuel Minas – GPA Engineering Supervisor, Nino Joseph D. Bacsafra

SUBJECT: TTGIVC017 -Tank 1934 Lead Abatement Change Order Confirmation Contract# C-028-19 Invitation#GPA-028-19 PO# 27002 OP
Project Name: Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tanks

Dear Mr. Bacsafra,

We refer to the email sent by our Project Manager, Mr. Mahesh Mohanan, to GPA on March 26, 2025, regarding the subject "Tank 1934 – Lead Test," and the subsequent advice received from the GPA Engineer on March 27, 2025, instructing Tristar Terminals Guam Inc. ("TTGI") to proceed with the necessary compliance requirements.

TTGI hereby submits this letter to formally notify GPA of a change in working conditions at Tank 1934, specifically concerning the presence of lead on the tank surfaces.

In accordance with Section 10, "Changes in Work," and Clause VIII of the General Provisions of the subject contract, we respectfully request GPA's understanding and agreement that a change order is warranted. This change order is necessary to address the newly identified conditions and to allow TTGI to proceed with the project in compliance with applicable safety and environmental regulations.

In line with this, we humbly submit to GPA our Change Order/Variation Claim Form Notice No. TTGI-VC-017 to carry out the following activities necessary to resume the original project schedule:

1. Removal of the lead-based paint at the identified repair locations.
2. Environmental handling, transport, and disposal of loose lead contaminants.
3. Implementation of control measures, including medical examinations, trainings, provision of personal protective equipment (PPE), and the deployment of appropriate tools and equipment.

For your reference and consideration, the following points are presented to justify TTGI's position that the advised activity falls outside the original Scope of Work.

PUC–08

Change Order/Variation Clam Justification:

1. With reference to the Scope of Work outlined in the RFP and the RFI amendments under Contract GPA 028-019, specifically Amendment No. IV, GPA provided clarification in response to Tristar's RFI regarding the expected presence of lead in each tank. As stated in Item 1c3 on page 82 of the amendment: "Tank coating/lining is lead free." This statement formed the basis of TTGI's understanding that lead abatement would not be required under the original contract scope.

2. On March 20, 2025, prior to initiating the tank repair and refurbishment activities, TTGI conducted a lead test on Tank 1934 in preparation for the installation of the handrail on the tank roof. The results of this test confirmed the presence of lead concentrations in the paint applied to the tank surface. This unforeseen condition necessitates additional work and safety measures not accounted for in the original contract.

3. As of reports received on March 25, 2025, which indicates the presence of Lead Containing Paint on the Exterior Tank Shell (Upper, Mid and Lower), Tank Roof and Tank Stairs. Table 1 mentions the summary on the Lead Test performed.

Item #	Sample Area/Description	Pb-C (Mg/Cm²)	Result
--	PCS Calibration	1.1	Pass
--	PCS Calibration	1.1	Pass
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--	PCS Calibration	1.1	Pass
1	Exterior Tank Shell – Metal – Dark Green	0.2 through 0.8	LCP
2	Exterior Tank Shell – Metal – Black	0.1 through 0.6	LCP
3	Exterior Tank Shell – Metal – Light Green	0 through 0.6	LCP
4	Stairs – Metal – Light Green	0.1 through 0.2	LCP
5	Tank Roof – Metal – Dark Green	0.1 through 0.2	LCP
6	Interior Tank Shell – Metal – Pink	0 through 0	Negative

4. Subsequent discussions with GPA Engineers confirmed the need to address the affected repair locations on the tank. This remediation is essential to facilitate the continuation of the tank repair and refurbishment scope of work.
5. TTGI initiated consultations with qualified third-party specialists to assess the requirements for the lead abatement scope of work. This assessment includes, but is not limited to, compliance with OSHA's Lead Standards for Construction (29 CFR 1926.62) and the U.S. EPA's hazardous waste regulations (40 CFR Parts 240–282).
6. The applicable regulations mandate several critical measures, including worker training, medical surveillance, air monitoring, provision of PPE, and hygiene facilities to ensure safe execution of the lead abatement activities.
7. TTGI respectfully requests a change order specifically for the lead abatement work required to proceed with the exterior tank refurbishment activities for GPA Tank 1934. This work is essential to safely return the tank to operational service in compliance with all regulatory and contractual obligations.

In light of the points outlined above, TTGI respectfully requests GPA's confirmation that the activities described constitute a revised scope of work for the completion of the lead abatement on Tank 1934. Should GPA wish to pursue an alternative methodology or propose any modifications to the scope of work required to achieve this milestone, TTGI kindly requests that GPA provide an amended scope of work, clearly outlining the contractor's responsibilities. At this point, TTGI estimates the cost of completing the lead abatement activities at **$1,868,656.31**. A detailed breakdown of this estimate is provided below for your review. Please note that this estimate excludes any cost impacts associated with other change order conditions previously submitted to GPA.

Terms, Conditions and Assumptions for this change order i.e. TTGI-VC-017

1. The proposal does not include the removal of any loose lead-contained paint (LCP) from the tank surface.
2. Lead abatement is limited to the repair/refurbishment locations on the exterior surface of Tank 1934.
3. Lead abatement activities do not cover surface preparation for the painting across the tank.
4. Lead abatement for associated pipelines is excluded from this proposal.
5. The disposal of metal scraps containing LCP is not included in the proposal.
6. The handling and disposal of lead-abated particulates generated during the approved scope of work is included in the proposal.
7. A standby fee of $5,000 per day shall be applied in the event of any work stoppage resulting from:
    a. Delays due to changes in site condition;
    b. Delays due to coordination with other contractors or third parties performing the same or similar scope of work as TTGI;
    c. Delays due to coordination with other contractors or third parties performing work outside TTGI's scope;
    d. Delays in the approval of this change order beyond 15 calendar days from the date of receipt.

    If any portion of the addressed scope of work is delegated to another party, it will void all warranties or guarantees related to the Tank. Additionally, it will nullify TTGI's certification or conformance regarding the structural integrity of the Tank.
8. The estimated duration for completion of the proposed scope of work is 240 calendar days (8 months).

TTGI shall prepare and submit a detailed project schedule for the proposed change order upon receipt of GPA's formal confirmation of Change Order TTGI-VC-017.

We fully respect GPA's internal review and approval processes and remain committed to completing the project in a timely and compliant manner. Upon acceptance of this change order proposal, TTGI is ready to mobilize and proceed with the lead abatement activities. Our project manager will coordinate closely with GPA's engineering team to ensure a prompt and efficient commencement of the work.

Should you require clarification regarding this letter, please feel free to contact me at (671) 565-2333 or via email at jaflleje@tristar-guam.com

Sincerely,

John Afflleje
Terminal Manager

Enclosed

1. Detailed Cost Build-Up
2. Change Order Variation Claim Form – TTGIVC017

Detailed Cost Build – up:

	Prime Contractor Direct Costs		
A	Labor	$ 590,812.64	
B	Material	$ 469,926.98	
C	Equipment	$ 420,178.91	
D	Subtotal of Additive Cost (A + B + C)		$ 1,480,918.53
E	Contractor Margin @ 15% - (D x 15%)		$ 222,137.78
F	Other Recoverable Costs		$ 165,600.00
G	Day/s required to complete		240
H	Total Cost - (D + E + F)		$ 1,868,656.31

To the best of my knowledge and belief, I certify that all costs listed abve are correct.
Contractor Signature _____ Date 06/17/2025

Description	Material	Labor	Equipment & Other	Total Cost
Mitigation / Control as per OSHA and EPA *(Inclusive of subcontractor costs, training, PPEs, decontamination provisions, and miscellaneous consumables)*	64,493.16	202,167.61	32,587.41	299,248.17
Lead Abatement by Power Tool with Protective Shroud and HEPA Vac System *(Inclusive of subcontractor costs, air monitoring sampling, visual inspection, and site clearance by CIH, scaffoldings, abatement tank exterior repair locations, including stiffener ring)*	526,319.48	267,759.37	387,591.50	1,181,670.36
Contaminated Water Disposal *120 drums @ $1,200 per drum (Variable Cost - Charged as per actual disposal)*				144,000.00
Total Fixed Cost to GPA	**590,812.64**	**469,926.98**	**420,178.91**	**1,480,918.53**
Total Variable Cost to GPA(Approximate)				**144,000.00**
Total Direct Cost				**1,624,918.53**
Contractor Margin @ 15%				**243,737.78**
Total Change Order Cost				**1,868,656.31**

TRISTAR | Agility Defense & Government Services

Change Order/Variation Claim Form

Project RFP No.:	GPA-028-19	**Date:**	06-06-2025
P.O. No:	27002 OP	**CO/VC No.:**	TTGI-VC-017
Contractor:	Tristar Terminals Guam, Inc.		
Project Title:	GPA Bulk Tank Refurbishment Project		

Tank 1934 Tank Lead Abatement

This work was not included in the tender documents because:

☐ 1. Cash Allowance	☐ 5. Cost Saving	☐ 9. CM Error
☐ 2. Design Discrepancy	☐ 6. Design Improvement	☐ 10. Contract Reconciliation
☐ 3. Regulatory Change	☐ 7. Owner Change/Advice	☒ 11. Not Originally Identified in RFP
☒ 4. Site Condition	☐ 8. Furniture/EquipmentChange	

Drawings/Sketches attached: (refer to enclosed)

1. Not Applicable

Contract/Invoice Documents attached: (refer to enclosed)

1. Out of Service Inspection & Refurbishment of GPA Bulk Storage Fuel Tanks Contract (No. C-028-19)
2. Change Order Letter Dated 06-Jun-2025

All terms and conditions of the original contract apply however the contract amount is hereby increased by the sum of this Change Order. Value for this change order: **$1,868,656.31.**

Terms, Conditions and Assumptions for this change order i.e. TTGI-VC-017

1. The proposal does not include the removal of any loose lead-contained paint (LCP) from the tank surface.
2. Lead abatement is limited to the repair/refurbishment locations on the exterior surface of Tank 1934.
3. Lead abatement activities do not cover surface preparation for the painting across the tank.
4. Lead abatement for associated pipelines is excluded from this proposal.
5. The disposal of metal scraps containing LCP is not included in the proposal.
6. The handling and disposal of lead-abated particulates generated during the approved scope of work is included in the proposal.
7. A standby fee of $5,000 per day shall be applied in the event of any work stoppage resulting from:
   a. Delays due to changes in site condition;
   b. Delays due to coordination with other contractors or third parties performing the same or similar scope of work as TTGI;
   c. Delays due to coordination with other contractors or third parties performing work outside TTGI's scope;
   d. Delays in the approval of this change order beyond 15 calendar days from the date of receipt.

   If any portion of the addressed scope of work is delegated to another party, it will void all warranties or guarantees related to the Tank. Additionally, it will nullify TTGI's certification or conformance regarding the structural integrity of the Tank.
8. The estimated duration for completion of the proposed scope of work is 240 calendar days (8 months).

Requested by:

Mahesh Mohanan — June 17, 2025

Tristar Terminals Guam, Inc. Representative & Project Manager — Date (mm-dd-yyyy)

Approvals:

Authorized Guam Power Authority Representative — Date (mm-dd-yyyy)

EXHIBIT C

TRISTAR | Agility Defense & Government Services

TTGI/PRJT/OUT/JUNE/2025/010/R2

August 13, 2025

Mr. Vince J. Sablan, P.E.
Manager of Engineering
Guam Power Authority (GPA)
P.O. Box 2977
Agana, Guam 9693-2977

CC: Mr. Manuel Minas – GPA Engineering Supervisor, Nino Joseph D. Bacsafra-GPA Project Manager

SUBJECT: TTGIVC017 -Tank 1934 Lead Abatement Change Order Confirmation Contract# C-028-19 Invitation#GPA-028-19 PO# 27002 OP
Project Name: Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tanks

Dear Mr. Sablan,

We refer to the email sent by our Project Manager, Mr. Mahesh Mohanan, to GPA on March 26, 2025, regarding the subject "Tank 1934 – Lead Test," and the subsequent advice received from the GPA Engineer on March 27, 2025, instructing Tristar Terminals Guam Inc. ("TTGI") to proceed with the necessary compliance requirements.

TTGI hereby submits this letter to formally notify GPA of a change in working conditions at Tank 1934, specifically concerning the presence of lead on the tank surfaces.

In accordance with Section 10, "Changes in Work," and Clause VIII of the General Provisions of the subject contract, we respectfully request GPA's understanding and agreement that a change order is warranted. This change order is necessary to address the newly identified conditions and to allow TTGI to proceed with the project in compliance with applicable safety and environmental regulations.

In line with this, we humbly submit to GPA our Change Order/Variation Claim Form Notice No. TTGI-VC-017 to carry out the following activities necessary to resume the original project schedule:

1. Removal of the lead-based paint at the identified repair locations.
2. Environmental handling, transport, and disposal of loose lead contaminants.
3. Implementation of control measures, including medical examinations, trainings, provision of personal protective equipment (PPE), and the deployment of appropriate tools and equipment.

For your reference and consideration, the following points are presented to justify TTGI's position that the advised activity falls outside the original Scope of Work.

PUC–013

Change Order/Variation Clam Justification:

1. With reference to the Scope of Work outlined in the RFP and the RFI amendments under Contract GPA 028-019, specifically Amendment No. IV, GPA provided clarification in response to Tristar's RFI regarding the expected presence of lead in each tank. As stated in Item 1c3 on page 82 of the amendment: "Tank coating/lining is lead free." This statement formed the basis of TTGI's understanding that lead abatement would not be required under the original contract scope.

2. On March 20, 2025, prior to initiating the tank repair and refurbishment activities, TTGI conducted a lead test on Tank 1934 in preparation for the installation of the handrail on the tank roof. The results of this test confirmed the presence of lead concentrations in the paint applied to the tank surface. This unforeseen condition necessitates additional work and safety measures not accounted for in the original contract.

3. As of reports received on March 25, 2025, which indicates the presence of Lead Containing Paint on the Exterior Tank Shell (Upper, Mid and Lower), Tank Roof and Tank Stairs. Table 1 mentions the summary on the Lead Test performed.

Item #	Sample Area/Description	Pb-C (Mg/Cm²)	Result
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2	Exterior Tank Shell – Metal – Black	0.1 through 0.6	LCP
3	Exterior Tank Shell – Metal – Light Green	0 through 0.6	LCP
4	Stairs – Metal – Light Green	0.1 through 0.2	LCP
5	Tank Roof – Metal – Dark Green	0.1 through 0.2	LCP
6	Interior Tank Shell – Metal – Pink	0 through 0	Negative

4. Subsequent discussions with GPA Engineers confirmed the need to address the affected repair locations on the tank. This remediation is essential to facilitate the continuation of the tank repair and refurbishment scope of work.
5. TTGI initiated consultations with qualified third-party specialists to assess the requirements for the lead abatement scope of work. This assessment includes, but is not limited to, compliance with OSHA's Lead Standards for Construction (29 CFR 1926.62) and the U.S. EPA's hazardous waste regulations (40 CFR Parts 240–282).
6. The applicable regulations mandate several critical measures, including worker training, medical surveillance, air monitoring, provision of PPE, and hygiene facilities to ensure safe execution of the lead abatement activities.
7. TTGI respectfully requests a change order specifically for the lead abatement work required to proceed with the exterior tank refurbishment activities for GPA Tank 1934. This work is essential to safely return the tank to operational service in compliance with all regulatory and contractual obligations.

Considering the points outlined above, TTGI respectfully requests GPA's confirmation that the activities described constitute a revised scope of work for the completion of the lead abatement on Tank 1934. Should GPA wish to pursue an alternative methodology or propose any modifications to the scope of work required to achieve this milestone, TTGI kindly requests that GPA provide an amended scope of work, clearly outlining the contractor's responsibilities. At this point, TTGI estimates the cost of completing the lead abatement activities at **$1,725,119.31**. A detailed breakdown of this estimate is provided below for your review. Please note that this estimate excludes any cost impacts associated with other change order conditions previously submitted to GPA.

PUC–014

Terms, Conditions and Assumptions for this change order i.e. TTGI-VC-017

1. The proposal does not include the removal of any loose lead-contained paint (LCP) from the tank surface.
2. Lead abatement is limited to the repair/refurbishment locations on the exterior surface of Tank 1934.
3. Lead abatement activities do not cover surface preparation for the painting across the tank.
4. Lead abatement for associated pipelines is excluded from this proposal.
5. The disposal of metal scraps containing LCP is not included in the proposal.
6. The handling and disposal of the lead abated material is considered as fixed lump sum.
7. The proposal is lump sum and fixed price proposal.
8. A standby fee of $5,000 per day shall be applied in the event of any work stoppage resulting from:
    a. Delays due to changes in site condition;
    b. Delays due to coordination with other contractors or third parties performing the same or similar scope of work as TTGI;
    c. Delays due to coordination with other contractors or third parties performing work outside TTGI's scope;
    d. Delays in the approval of this change order beyond 15 calendar days from the date of receipt.

    If any portion of the addressed scope of work is delegated to another party, it will void all warranties or guarantees related to the Tank. Additionally, it will nullify TTGI's certification or conformance regarding the structural integrity of the Tank.
9. The estimated duration for completion of the proposed scope of work is 240 calendar days (8 months).

TTGI shall prepare and submit a detailed project schedule for the proposed change order upon receipt of GPA's formal confirmation of Change Order TTGI-VC-017.

We fully respect GPA's internal review and approval processes and remain committed to completing the project in a timely and compliant manner. Upon acceptance of this change order proposal, TTGI is ready to mobilize and proceed with the lead abatement activities. Our project manager will coordinate closely with GPA's engineering team to ensure a prompt and efficient commencement of the work.

Should you require clarification regarding this letter, please feel free to contact me at (671) 565-2333 or via email at jaflleje@tristar-guam.com

Sincerely,

John Affleje
Terminal Manager

Enclosed

1. Detailed Cost Build-Up
2. Change Order Variation Claim Form – TTGIVC017

Detailed Cost Build – up:

	Prime Contractor Direct Costs	
A	Labor	$ 543,355.70
B	Material	$ 562,482.07
C	Equipment	$ 402,793.02
D	Total Direct Cost (A + B + C)	$ 1,508,630.79
E	Contractor Margin @ 14.35% (Dx14.35%)	$ 216,488.52
F	Other Recoverable Costs	$ -
G	Day/s required to complete	240
H	Total Cost - (D + E + F)	$ 1,725,119.31

To the best of my knowledge and belief, I certify that all costs listed above are correct.
Contractor Signature _____ Date 08/13/2025

Description of Recovery Options	Material	Labor	Equipment & Other	Total Cost
Mitigation / Control as per OSHA and EPA *(Inclusive of subcontractor costs, training, PPEs, decontamination provisions, and miscellaneous consumables)*	$201,074.11	$2,306.16	$32,506.41	$295,886.67
Lead Abatement by Power Tool with Protective Shroud and HEPA Vac System *(Inclusive of subcontractor costs, air monitoring sampling, visual, inspection, and site clearance by CIH, scaffoldings, abatement tank exterior repair locations, including stiffener ring)*	$265,704.96	$481,049.54	$370,286.61	$1,117,041.12
Contaminated Waste Disposal (Disposal of contaminated material from Lead Abatement)	$95,703.00			$95,703.00
Total Cost to GPA	**$562,482.07**	**$543,355.70**	**$402,793.02**	**$1,508,630.79**
Contractor Margin @ 14.35%				$216,488.52
Total Change Order Cost				$1,725,119.31

PUC–016

TRISTAR | Agility Defense & Government Services

Change Order/Variation Claim Form

Project RFP No.:	GPA-028-19	**Date:**	08-13-2025
P.O. No:	27002 OP	**CO/VC No.:**	TTGI-VC-017
Contractor:	Tristar Terminals Guam, Inc.		
Project Title:	GPA Bulk Tank Refurbishment Project		

Tank 1934 Tank Lead Abatement

This work was not included in the tender documents because:

☐ 1. Cash Allowance	☐ 5. Cost Saving	☐ 9. CM Error
☐ 2. Design Discrepancy	☐ 6. Design Improvement	☐ 10. Contract Reconciliation
☐ 3. Regulatory Change	☐ 7. Owner Change/Advice	☒ 11. Not Originally Identified in RFP
☒ 4. Site Condition	☐ 8. Furniture/EquipmentChange	

Drawings/Sketches attached: (refer to enclosed)

1. Not Applicable

Contract/Invoice Documents attached: (refer to enclosed)

1. Out of Service Inspection & Refurbishment of GPA Bulk Storage Fuel Tanks Contract (No. C-028-19)
2. Change Order Letter Dated 12-Aug-2025

All terms and conditions of the original contract apply however the contract amount is hereby increased by the sum of this Change Order. Value for this change order: **$1,725,119.31.**

Terms, Conditions and Assumptions for this change order i.e. TTGI-VC-017

1. The proposal does not include the removal of any loose lead-contained paint (LCP) from the tank surface.
2. Lead abatement is limited to the repair/refurbishment locations on the exterior surface of Tank 1934.
3. Lead abatement activities do not cover surface preparation for the painting across the tank.
4. Lead abatement for associated pipelines is excluded from this proposal.
5. The disposal of metal scraps containing LCP is not included in the proposal.
6. The handling and disposal of the lead abated material is considered as fixed lump sum.
7. The proposal is lumpsum and fixed price proposal.
8. A standby fee of $5,000 per day shall be applied in the event of any work stoppage resulting from:
    a. Delays due to changes in site condition;
    b. Delays due to coordination with other contractors or third parties performing the same or similar scope of work as TTGI;
    c. Delays due to coordination with other contractors or third parties performing work outside TTGI's scope;
    d. Delays in the approval of this change order beyond 15 calendar days from the date of receipt.

   If any portion of the addressed scope of work is delegated to another party, it will void all warranties or guarantees related to the Tank. Additionally, it will nullify TTGI's certification or conformance regarding the structural integrity of the Tank.
9. The estimated duration for completion of the proposed scope of work is 240 calendar days (8 months).

Requested by:

Mahesh Mohanan — Aug 13, 2025

Tristar Terminals Guam, Inc. Representative & Project Manager — Date (mm-dd-yyyy)

Approvals:

Authorized Guam Power Authority Representative — Date (mm-dd-yyyy)

	Shell Exterior	Area	Unit	Price per
1	Weld Repair on Shell	100	sqft	$ 60,045.92
2	Overflow Pipe removal	800	sqft	$ 480,367.37
3	Insert plate for the overflow pipe	25	sqft	$ 15,011.48
4	Door sheet installation	120	sqft	$ 72,055.11
5	Accessway installation	120	sqft	$ 72,055.11
6	Winder girder for repairs or replacement	1260	sqft	$ 756,578.60
	Roof Exterior			$ -
1	Weld pass repair on Roof	100	sqft	$ 60,045.92
2	Patch plate repair on Roof	42	sqft	$ 25,219.29
3	Replacement plate on Roof	105	sqft	$ 63,048.22
4	Replace all four (4) pieces 36" O Manholes.	30	sqft	$ 18,013.78
5	Replace cable support	95	sqft	$ 57,043.62
6	Replace severely corroded 8 pieces of free vents.	30	sqft	$ 18,013.78
7	Handrail installation locations	44	sqft	$ 26,420.21
8	Temporary support installation locations for access on roof	2	sqft	$ 1,200.92
	Total	**2873**	**sqft**	
	Change order amount	**$ 1,725,119.31**		

unit price **$ 600.46**

Remarks:

The rate of $600.46 per square foot includes mobilization, air monitoring, utilization of equipment, and lead abatement.

Outlook

Re: GPA Docket 25-21

From Marianne Woloschuk <mwoloschuk@gpagwa.com>
Date Sun 11/30/2025 8:25 PM
To anthony camacho <arcesq@hotmail.com>

Good afternoon, Anthony! Thank you very much for this feedback, really appreciate it. I will meet with our engineers and find out more. Hopefully we can get the necessary answers without delay. Thanks, - Marianne

---

From: anthony camacho <arcesq@hotmail.com>
Sent: Monday, December 1, 2025 10:10 AM
To: Marianne Woloschuk
Subject: GPA Docket 25-21

Dear Marianne,

I have reviewed the memo and its attachments. I still have some concerns regarding the lead abatement and Change Order No. 5. As for the lead abatement, I can agree that IHP is an independent contractor, however, reviewing their report, attachment 1 to the memo, it states that their inspection only included: "Areas/components that may be disturbed as per Tristar personnel direction." Hence, it appears that Tristar told them to inspect specific areas of the tank, which they did. Further, your memo did not adequately address why GPA stated that the paint on the tank was lead free. I suspect that if one were to research the history of Tank 1934, lead abatement had already been done sometime in the past and this was the basis of that belief. It is important that this be looked into to confirm whether this was in fact the basis of GPA's statement in the solicitation that the paint on Tank 1934 was lead free.

As for Change Order No. 5, I am still awaiting a full explanation of its $1,263,448 so that I can determine whether the PUC should ratify it or not.

Sincerely,

Anthony R. Camacho, Esq.

PUC

Legal Counsel

Outlook

Re: GPA Docket 25-21 (tank 1934)

From Marianne Woloschuk <mwoloschuk@gpagwa.com>
Date Tue 12/9/2025 2:02 AM
To anthony camacho <arcesq@hotmail.com>

3 attachments (859 KB)
Amendment IV.pdf; GPA REs FY2023-26 Rel Authorizing Expenditure Out of Srvc Inspection and....pdf; 2023-6-28 re Out of Service Change Order 5 Amendment to increase SIGNED.pdf;

Good evening, Anthony!

Here is information from our engineers about Tank 1934 and the project in this docket.

(1) Lead content.

The first time refurbishment work was done on Tanks 1934 and 1935, the work was performed by different contractors. The contractor that did the work on Tank 1935 work used lead-free paint. When we were preparing the current bid specs for the refurbishment of Tank 1934, we assumed that since Tank 1935 tank was lead-free, then Tank 1934 would also be lead-free.

Attached is a April 5, 2019, Bid Amendment regarding the tank coating for reference. It shows that Tristar asked if the tank coating was free of lead and GPA replied that it was. *See id.*, Tristar RFI - Question #4, page 4 of 8.

We now believe that the contractor that worked on Tank 1934 initially did not use lead-free paint, hence the need for lead abatement in the current project.

(2) Change order no. 5.

I have attached a copy of GPA Resolution No. FY2023-26 (Aug. 29, 2023) in which the CCU authorized GPA to increase the cost of the project by $1,263,448.00, from $13,883,209.91 to $15,146,657.91. The funding to refurbish and inspect Tank 1934 was increased to cover the additional volume of oil recovery and sludge removal and disposal beyond the original scope of work based on subsequent findings. *See* Attach. GPA Eng'g Mem. (June 28, 2023), with Change Order (July 2023) and Tristar Proposal (Apr. 24, 2023).

GPA has 2 purchase orders for this project using different funding sources:
27002 OP - Cabras 3&4 Insurance Proceeds
29281 OP - Revenue Funds

Purchase Order	Cost	USD ($)
27002	Original Project	8,969,510.00

27002	Change Order 1	29,387.56
27002	Change Order 2	543,813.00
29281	Change Order 3	1,200,010.00
29281	Change Order 4	3,140,489.35
29281	Change Order 5	1,263,448.00
	Total	15,146,657.91

Purchase order 27002 covers the original Scope of Works which includes:

a. Tank 1935
b. Tank 1934
c. Tank Farm System (Cathodic & Leak Detection System, Tank Level Sensors, 5000 Diesel Tank, Oil Water Separator)

Purchase order 29281 covers the Change Orders for Tank 1934 and Tank 1935.

If you have further questions, please let me know? We are standing by, ready to respond.

Thanks very much,

-Marianne

Marianne Woloschuk
Legal Counsel
Guam Power Authority
Gloria B. Nelson Public Service Building
688 Route 15 Mangilao Guam 96913
P.O. Box 2977 Hagatna Guam 96932
671-648-3203 / mwoloschuk@gpagwa.com

From: anthony camacho <arcesq@hotmail.com>
Sent: Monday, December 1, 2025 10:10 AM
To: Marianne Woloschuk
Subject: GPA Docket 25-21

Dear Marianne,

I have reviewed the memo and its attachments. I still have some concerns regarding the lead abatement and Change Order No. 5. As for the lead abatement, I can agree that IHP is an independent contractor, however, reviewing their report, attachment 1 to the memo, it states that their inspection only included: "Areas/components that may be disturbed as per Tristar personnel direction." Hence, it appears that Tristar told them to inspect specific areas of the tank, which they did. Further, your memo did not adequately address why GPA stated that the paint on the tank was lead free. I suspect that if one were to research the history of Tank 1934, lead abatement had already been done sometime in the

past and this was the basis of that belief. It is important that this be looked into to confirm whether this was in fact the basis of GPA's statement in the solicitation that the paint on Tank 1934 was lead free.

As for Change Order No. 5, I am still awaiting a full explanation of its $1,263,448 so that I can determine whether the PUC should ratify it or not.

Sincerely,

Anthony R. Camacho, Esq.

PUC

Legal Counsel

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O. BOX 2977 · AGANA, GUAM U.S.A. 96932-2977

April 05, 2019

AMENDMENT NO.: IV

TO

INVITATION TO BID NO.: GPA-028-19

FOR

OUT OF SERVICE INSPECTION & REFURBISHMENT OF GPA BULK STORAGE FUEL TANKS

Prospective Bidders are hereby notified of the following changes and response to inquiries received from IP&E Guam dated 02/08/19, BME & SONS, INC. dated 02/08/19, 02/21/19 & 03/06/19 and Tristar Terminals Guam, Inc. dated 02/15/19 & 03/03/19:

IP&E Guam dated 02/08/19:

QUESTION:

1. In reference to Page 24, Section 3.1.3 – Tank Leak Detection Assessment and Page 85, Section 1.3 – Tank Leak Detection:

   Page 24 indicates a cost for the bidder to submit for the Tanks Leak Detection System Assessment. Page 85 articulates that the contractor is responsible for also performing repairs and replacing parts if needed. Please confirm that repairs and parts will be considered a Change in Scope and treated as a separate cost from the assessment.

ANSWER:

Repair work and parts replacement are included on the project scope of work.

QUESTION:

2. In reference to Page 51, Section 5 – Subletting:

   This section limits subcontracting to 49%. Based on the various expertise required to complete an end-to-end API 653 project, IP&E requests to delete this limitation.

ANSWER:

General Conditions Chapter IV, Part 5 Subletting, to be amended.
Conditions a and b will be deleted and shall now read as "Subletting part of the work is permitted."

QUESTION:

3. In reference to Page 85, Section 1.1d – Tanks Hydrostatic Testing:

This section mentions a full hydrostatic test utilizing salt water and additional full hydrostatic tests as needed. The water quantity per test is approximately 254,000 barrels. Please expound on acceptable options for disposing this water.

ANSWER:

The water shall be disposed in accordance with local and federal EPA regulations.

QUESTION:

4. In reference to Page 186, Section 4.0 – Contractor Use of Site:

This section does not mention TWIC requirements. The entire Fuel Bulk Storage Facility is a restricted area. TWIC identification is required. Please confirm that the successful bidder is required to adhere to TWIC requirements for all personnel working within the facility.

ANSWER:

The Contractor shall adhere to the TWIC requirements and it's covered under Section 01010 Part 3.1 Safety and Health Regulations.

QUESTION:

5. In reference to Page 345, Section 2.1 – Summary and Repair Recommendations, Foundation:

Based on the 2010 In-Service Inspection Report, "The survey found the tank out-of-plane settlement to be out-of-level by 2.49". The API 653 calculations for out-of-plane deflection exceeds the allowable limits for this tank." Please advise if GPA performed the recommendations in the report to conduct settlement measurements? If so, please provide the corresponding measurement reports.

Also, additional edge settlement was recommended. Is this included in the inspection scope of work?

ANSWER:

Please refer to Section 01010, Part 1c6, c.

QUESTION:

6. Please provide the past API 653 Out of Service Inspection Report for both tanks. Please also provide information on repairs completed after the previous API 653 Out of Service Inspection Reports.

ANSWER:

Please see attached copy of the report for both tanks. All repairs were completed during the previous Tank Refurbishment Project.

BME & SONS, INC. dated 02/08/19:

QUESTION:

1. Please be advised who will be the assigned Construction Manager for this project.

ANSWER:

GPA Engineering/Project Management.

QUESTION:

2. We would like to request a copy of the minutes of the pre-bid meeting and also list of the attendees/bidders.

ANSWER:

Minutes are not taken during pre-bid conferences; however, interested parties may view the pre-bid conference attendance sheet and bidder's register.

Tristar Terminals Guam, Inc. dated 02/15/19:

QUESTION:

1. TTGI would like to know the expected volume of sludge in each of the Tanks i.e. Tank 1934 & 1935?

ANSWER:

Section 01010, Part 1.1c, 1c3 to be amended and shall now read as "Non-Hazardous Waste and Sludge Removal and Disposal - The total approximate volume of oil, water and sludge at six (6) inches high for the tanks is 1,000 barrels per tank". The approximate volume of sludge is 150 barrels per tank. The remaining non-hazardous oil can be disposed at Cabras Waste Facility. Residue and sludge shall be disposed by the Contractor in accordance with local and federal EPA regulations.

QUESTION:

2. TTGI would like to request GPA to delink the price proposal for point 1c7 from the bid schedule for both Tanks 1934 & 1935. In the absence of an API 653 report, the bidder will not be able to quantify the size or area of the Tank bottom and shell that must be replaced. There is likely a high chance for the bidder to overestimate the square footage that must be replaced and thereby driving up the input cost for GPA. It would be prudent to remove this part of work scope from bid and issue a separate bid once the API 653 report is available.

ANSWER:

For quantity of repair works, please refer to Section 01010, Part 1.1c, 1c7.

QUESTION:

3. For the line item 1c8, repainting of Tank interior and exterior, due to the age of the tanks, we expect extensive corrosion and pitting on the interior side of the shell plates. 100% removal of oil and grease from the surface with the suggested cleaning method will not be practically possible.

   This will result in contaminating the used abrasive and further the abrasive and product mix will have to be disposed as hazardous waste. TTGI would suggest including a separate line i.e. 1c8, e for disposal of hazardous waste generated from painting.

ANSWER:

Please refer to Section 01010, Part 1.1c, 1c4 and 1c5.

QUESTION:

4. Please confirm if the tank coating or lining is free of lead?

ANSWER:

Tank coating/lining is lead free.

BME & SONS, INC. dated 02/21/19:

QUESTION:

1. Scope of works 1.2 Tank Farm Cathodic Protection System. The contractor shall perform assessment on the cathodic protection system to include testing of mixed oxide anodes, testing and calibration of oil cooled rectifiers, checking/testing cable to structure connections, etc. and contractor shall make necessary repairs or parts replacement if needed. For this scope, we can only do the pricing of assessment since we can't determine yet w/c repairs are necessary for us to come up with the repair cost. Please confirmed that the contractors only provide assessment cost and if any repairs or replacement is necessary will be subject for additional cost.

ANSWER:

Repair work and parts replacement are included on the project scope of work.

QUESTION:

2. Scope of works 1.3 Tank Leak Detection. The contractor shall perform assessment on the tank leak detection system to include testing, calibration of data logger, testing and calibration of DHP-485 junction board, etc. and contractor shall make necessary repairs or parts replacement if needed. For this scope, we can only do the pricing of assessment since we can't determine yet w/c repairs are necessary for us to come up with the repair cost. Please confirmed that contractors only to provide assessment cost and if any repairs or replacement is required will be subject for additional cost.

ANSWER:

Repair work and parts replacement are included on the project scope of work.

QUESTION:

3. Please provide specifications for Tank Level Sensor.

ANSWER:

Please refer to Section 01010, Part 1.4.

QUESTION:

4. Please provide specifications for 5000 gals. ULSD Tank and associated appurtenances.

ANSWER:

Please refer to Section 01010, Part 1.6.

Tristar Terminals Guam, Inc. dated 03/03/19:

In reference to the Multi-Step Bid No. 028-19, Tristar Terminals Guam, Inc. (TTGI) would like to request clarification for the following questions.

QUESTION:

1. Can we take a sample of the tank bottom – GPA to provide tank bottom sample to assess composition of sludge.

ANSWER:

All requirements prior to disposal, e.g. sampling is part of project scope of work.

QUESTION:

2. Need more detail of existing supplier and existing leak detection system

ANSWER:

Please see attached leak detection system as-built drawings.

QUESTION:

3. As-built drawing and technology used for leak detection system

ANSWER:

Please see response on E.2.

QUESTION:

4. Need more detail of existing supplier and existing cathodic protection system – drawing and technology.

ANSWER:

Please see attached cathodic protection system as-built drawings.

BME & SONS, INC. dated 03/06/19:

QUESTION:

1. Please advise that there is an accessible road going through each tank for each planned equipment to be utilized for this project.

ANSWER:

The access road is located at the northeast side of both tanks.

QUESTION:

2. Please confirm that GPA will provide water source during the course of Tank cleaning

ANSWER:

Please refer to Section 01510, Part 1.6.

QUESTION:

3. GPA will ensure that the tanks are locked out and tagged out prior to mobilization.

ANSWER:

Please refer to Section 01010, Part 1.1a.

QUESTION:

4. GPA will be responsible to ensure that the tanks are blinded and the valves are dropped and not connected.

ANSWER:

Please see response on F.3.

QUESTION:

5. Please advise if we're able to utilize the GPA OWS on-site at fuel farm to process the oily rinsate when we perform tank cleaning.

ANSWER:

The OWS on-site is not operational.

QUESTION:

6. Can we utilized a CIH to grant initial entry, then we will test the air and generate our own entry permits during sludge removal and tank cleaning, until the tank is cleaned and ready for repairs, which the CIH will once again test the atmosphere to issue the final clearance?

ANSWER:

Please refer to Section 01010, Part 1.1c, 1c1.

QUESTION:

7. Are we able to remove the door sheet in 1935 to allow access for equipment and personnel during the cleaning?

ANSWER:

Please see response on F.6.

QUESTION:

8. Our supervisors will all be 40-hour trained supervisors. We plan on the technicians only receiving 8-hour awareness training. Is this sufficient?

ANSWER:

Please refer to Section 01010 Part 3.1.

QUESTION:

9. We are assuming that all 8,394 barrels of remaining product and sludge are to be disposed of. Does GPA have indication of the amount of usable fuel that we can transfer?

ANSWER:

The approximate amount of reusable oil to be transferred is about 850 barrels.
Also, please see response on C.1.

QUESTION:

10. If there's a recoverable fuel, where will GPA want this oil transferred?

ANSWER:

Please refer to Section 01010, Part 1.1c, 1c3.

CHANGES –

1. ***REMOVE*** Page 22 of 404 and ***REPLACE*** with Page 22a of 404 -
   - 1.a Bid schedule Item No. 1.1a under Description column shall now read as "Tank Draining and Oil Recovery". (For both tanks 1934 and 1935).
   - 1.b Bid schedule Item No. 1c3 under Description column shall now read as "Non-Hazardous Waste & Sludge Removal and Disposal; under Qty. column shall now read as "150 barrels". (For both tanks 1935 and 1934).

2. ***REMOVE*** Page 23 of 404 and ***REPLACE*** with Page 23a of 404-
   - 1.a Bid schedule Item No. 1.1a under Description column shall now read as "Tank Draining and Oil Recovery". (For both tanks 1934 and 1935).
   - 1.b Bid schedule Item No. 1c3 under Description column shall now read as "Non-Hazardous Waste & Sludge Removal and Disposal; under Qty. column shall now read as "150 barrels". (For both tanks 1935 and 1934).

3. ***REMOVE*** Page 81 of 404 and ***REPLACE*** with Page 81a of 404 -
   Section 01010, Part 1.1a add to the last paragraph. "The residue and sludge shall be blended approximately with 40% diesel cutter stock for further recovery".

4. ***REMOVE*** Page 82 of 404 and ***REPLACE*** with Page 82a of 404 –
Section 01010, Part 1.1.1c, 1c3 shall now read as "Non-Hazardous Waste and Sludge Removal and Disposal – The total approximate volume of oil, water and sludge at six (6) inches high of the tank is about 1,000 barrels for oil recovery per tank. The approximate volume of sludge is about 150 barrels after the oil recovery per tank. The remaining non-hazardous oil can be disposed at Cabras Waste Oil Facility. The residue and sludge shall be disposed by the Contractor in accordance with local and federal EPA regulations".

5. Bid Opening date is changed ***FROM*** 2:00 P.M., Thursday, April 11, 2019 ***TO NOW READ*** 2:00 P.M., Tuesday, April 30, 2019.

All Other Terms and Conditions in the bid package shall remain unchanged and in full force.

JOHN M. BENAVENTE, P.E.
General Manager

BID SCHEDULE

OUT OF SERVICE INSPECTION AND REFURBISHMENT OF GPA BULK STORAGE FUEL TANKS

Bidder will complete the work for the following price(s):

1. **TANK 1935**

Item No.	Description	Qty	Labor	Matl	Eqpt	Total
1.1	Mobilization/Demobilization	1 LS				
1.1a	Tank Draining and Oil Recovery	1 LS				
1.1b	Degassing, Vapor, Gas Freeing & Ventilating	1 LS				
1.1c	Interior Tank Cleaning					
1c1	Confined Space Entry Permit	1 LS				
1c2	Continuous Air Monitoring	1 LS				
1c3	Non-Hazardous Waste & Sludge Removal and Disposal	150 barrels				
1c4	Pre Cleaning Tank Interior	1 LS				
1c5	Surface Preparation					
a	Interior Surfaces	1 LS				
b	Exterior Surfaces	1 LS				
1c6	API 653 Integrity Inspection					
a	Visual Inspection	1 LS				
b	Ultrasonic Thickness Measurements	1 LS				
c	Dimensional Measurements	1 LS				
d	Magnetic Flux Measurements	1 LS				
e	Dye Penetrant Test	1 LS				
f	Engineering Analysis	1 LS				
1c7	Tank Defects Repairs					
a	Interior Bottom Plate & Shell	100 SF				
b	Exterior Shell Wall	100 SF				
c	Roof Exterior Surface	100 SF				
d	Bottom Projection Plate	100 SF				
e	Tank Stairway & Handrail	100 SF				
f	Tank External Piping	50 LF				
g	Install New Tank Railing	1 LS				
1c8	Repainting Tank Interior & Exterior					

a	Interior & Exterior Shell	1 LS				
b	Bottom Plates, Roof (Interior & Exterior)	1 LS				
c	Stairway, Handrail & Tank Appurtenances	1 LS				
d	Fuel Piping	1 LS				
1c9	Clean Up	1 LS				
1.1d	Tank Hydrostatic Testing	1 LS				
1.1e	Tank Calibration	1 LS				
SUB TOTAL						

2. **TANK 1934**

Item No.	Description	Qty	Labor	Matl	Eqpt	Total
1.1	Mobilization/Demobilization	1 LS				
1.1a	Tank Draining and Oil Recovery	1 LS				
1.1b	Degassing, Vapor, Gas Freeing & Ventilating	1 LS				
1.1c	Interior Tank Cleaning					
1c1	Confined Space Entry Permit	1 LS				
1c2	Continuous Air Monitoring	1 LS				
1c3	Non-Hazardous Waste & Sludge Removal and Disposal	150 barrels				
1c4	Pre-Cleaning Tank Interior	1 LS				
1c5	Surface Preparation					
a	Interior Surfaces	1 LS				
b	Exterior Surfaces	1 LS				
1c6	API 653 Integrity Inspection					
a	Visual Inspection	1 LS				
b	Ultrasonic Thickness Measurements	1 LS				
c	Dimensional Measurements	1 LS				
d	Magnetic Flux Leakage	1 LS				
e	Dye Penetrant Test	1 LS				
f	Engineering Analysis	1 LS				
1c7	Tank Defects Repairs					
a	Interior Bottom Plate & Shell	100 SF				
b	Exterior Shell Wall	100 SF				
c	Roof Exterior Surface	100 SF				
d	Bottom Projection Plate	100 SF				
e	Tank Stairway & Handrail	100 SF				

cleaning devices without requiring workers to enter the tank. The residue and sludge shall be blended approximately with 40% diesel cutter stock for further recovery.

1.1b Degassing, Vapor, Gas Freeing and Ventilating Tank

Prior to entering the tank, the Contractor shall perform degassing operations to remove toxic gases and volatile organic vapors from the tank's atmosphere by mechanical or natural displacement and dilution with fresh air. Degassing, vapor and gas freeing are the most hazardous tank cleaning operations. Tanks 1934 and 1935 are above ground, low pressure storage tank that contain residual fuel oil (RFO) no. 6 and have the potential to one or more of the following hazards:

1. Oxygen deficiency or enrichment
2. Fires or explosions
3. Toxic substance exposures
4. Physical and other hazards
5. Psychological and physiological hazards such as claustrophobia, heat and cold stress

The Contractor shall assure that entry supervisors, qualified persons, testers, entrants, attendants, standby persons, rescuers and workers are aware of the potential flammable and toxic hazards. The Contractor shall establish and prepare appropriate prevention and control measures during degassing, vapor and gas freeing operations. Tank cleaning workers, entrants, attendants, standby persons and rescuers shall wear approved respiratory and appropriate equipment, as required through the removal and cleaning operation.

1.1c Interior Tank Cleaning

Contractor's Entry Supervisor shall review the potential hazards, determine the safety procedures and requirements; assign standby persons, attendants and entrants, designate rescuers and have a Certified Industrial Hygienist (CIH) conduct and certify atmospheric conditions before issuing confine space entry permit for entering the tank. The entry supervisor prior to permitting entry into the tank shall require that a qualified person, authorized on the entry permit, conduct an inspection of the tank interior to determine if there are any physical hazards are present. Contractor's workers wearing approved respiratory and appropriate personal protective equipment (PPE) will enter the tank and physically remove the last remaining heavy non-recoverable product, sludge and residue.

1c1. Confined Space Entry Permit – The Contractor shall be responsible for hiring a Certified Industrial Hygienist (CIH) which shall certify that the tank is gas-free and safe to enter the tank. Confined Space Entry Permit shall be issued daily or renewed every shift and posted at the entrance of the manholes. At the end of the workday or when the permit expires, the entry supervisor shall assure that the tank is closed and secured by replacing all open manhole covers with at least four (4) bolts. At the start of the next workday, the entry supervisor shall require that the tank is ventilated and the atmosphere is retested and permissible entry are achieved before the CIH reissue the entry permit.

1c2. Continuous Air Monitoring – After the initial test indicate that the workers

may enter the tank, a continuous air monitoring program shall be conducted, recorded and submitted to GPA during the entire duration of work inside the tank. Ventilation shall continue throughout the entire inspection, removal and cleaning activity. Removal and cleaning activities shall stop and workers shall immediately leave the tank if the toxic exposure levels inside the tank exceed the applicable permissible limits.

1c3. Non-Hazardous Waste and Sludge Disposal – The total approximate volume of oil, water and sludge at six (6) inches high of the tank is about 1,000 barrels for oil recovery per tank. The approximate volume of sludge is about 150 barrels after the oil recovery per tank. The remaining non-hazardous oil can be disposed at Cabras Waste Oil Facility. The residue and sludge shall be disposed by the Contractor in accordance with local and federal EPA regulations.

1c4. Pre-Cleaning Tank Interior – Using approved petroleum chemicals, the Contractor shall remove dirt, grease, soluble salts, oil residues and other contaminants inside the tank interior. The Contractor shall be required to scrape or hydro-blast internal tank components in preparation for tank integrity testing inspection. The Contractor shall inspect and clean tank nozzles, fuel oil heaters, columns, roof, pontoons, seals and support members, etc. Cylindrical supports (columns) shall be closely inspected to assure that the product has not entered the supports through imperfect welds while the tank is in service. The Contractor shall provide a final wash down with water, kerosene or approved chemicals, then wipe all puddles and surfaces dry and air dry the tank. When the tank is clean, the Contractor shall remove all used cleaning materials including but not limited to, absorbent pads, rags, tools and containers and disposed of properly.

1c5. Surface Preparation – Following pre-cleaning tank interior, the Contractor shall sandblast the entire tank in preparation for tank integrity testing inspection by a certified API 653 Inspector. All surfaces to be inspected shall be prepared to the degree of cleanliness and surface profile recommended by the paint manufacturer and shall confirm to Steel Structures Painting Council (SSPC) Surface Preparation Standards and Specifications. Sandblasted surfaces shall not be allowed to become wet or dulled by oxidation to a point where visible rusting has occurred.

Recommended sandblasting surface preparations are as follows:

a) Interior Surfaces
   1. Underside of top of the tank – sandblast to "Bare White Metal" (SSPC-SP-5)
   2. Bottom Plate – sandblast entirely to "Near White Metal" (SSPC-SP-10)
   3. Shell Plate – blast entirely to "Near White Metal" (SSPC- SP-10)

b) Exterior Surfaces
   1. Steel ladders, hand rails and other appurtenances to exterior surfaces, sandblast to "Commercial" blast

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagåtña, Guam 96932 | (671) 648-3002 | guamccu.org

GPA RESOLUTION NO. FY2023-26

RELATIVE TO AUTHORIZING EXPENDITURE FOR THE OUT OF SERVICE INSPECTION AND REFURBISHMENT OF GPA BULK STORAGE FUEL TANK 1934

WHEREAS, the Guam Power Authority (GPA) operates and maintains the bulk storage fuel tanks located at Piti, Guam, which are managed by the current Contractor, Isla Petroleum and Energy Holdings, LLC (IP&E) and are used to supply fuel to GPA's base load units; and

WHEREAS, the bulk storage fuel tanks (tanks 1934 and 1935) last underwent internal inspection and refurbishment in 2007; and

WHEREAS, the tanks appurtenances including auxiliary equipment are required to be assessed, recalibrated and refurbished to comply with regulatory requirements; and

WHEREAS, upon completion of the out of service/internal inspection and refurbishment of the bulk storage fuel tanks, they will be utilized to store ULSD fuel to supply Piti Power Plant 7, 8, 9 and the new 198 MW Ukudu power plant; and

WHEREAS, the Contract was awarded to Tristar Terminals Guam, Inc. on December 02, 2019; and

WHEREAS, the project is currently on-going and Tristar Terminals Guam, Inc. submitted a request for a Construction Change Order (Attached Exhibit A); and

WHEREAS, the Construction Change Order is for the incremental volume of the oil recovery and sludge to be removed from Tank 1934 and disposed of as per EPA regulations; and

WHEREAS, the actual current volume in tank 1934 both for oil recovery and sludge removal is approximately 3,500 barrels which exceeds what was covered in the Scope of Work; and

WHEREAS, the proposed Construction Change Order total cost is **$1,263,448.00**; and

WHEREAS, completing these additional work is viable in order to perform the next sequence of project activities and meet the USEPA compliance schedule; and

WHEREAS, GPA is requesting the approval of the CCU and the PUC for the proposed Construction Change Order of Tristar Agility for the Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tanks Project.

NOW, THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, subject to the approval of the Public Utilities Commission, as follows:

1. After careful review of the resolution, the Consolidated Commission on Utilities finds the expenditure for the Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tank Construction Change Order to be reasonable, prudent and necessary for the use of Revenue Funds.
2. The General Manager is hereby authorized to increase his obligating authority by $1,263,.448.00 from $13,883,209.91 to $15,146,657.91 for the Out of Service Inspection and Refurbishment Services for the GPA Bulk Storage Fuel Tanks Construction Change Order utilizing Revenue Funds.

RESOLVED, that the Chairman certifies and the Board Secretary attests the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 29th DAY OF AUGUST, 2023.

Certified by:

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

Attested by:

PEDRO ROY MARTINEZ
Secretary
Consolidated Commission on Utilities

I, PEDRO ROY MARTINEZ, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: 5

Nays: 0

Absent: 0

Abstain: 0

GUAM POWER AUTHORITY

ATURIDÅT ILEKTRESEDÅT GUÅHAN
P.O.BOX 2977 • HAGÅTÑA, GUAM U.S.A. 96932-2977

MEMORANDUM

TO: Supply Management Administrator

FROM: Manager of Engineering

DATE: June 28, 2023

SUBJECT: Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tanks
Purchase Order No. 29281 OP
Change Order No. 5

Please amend Purchase Order 29281 OP under Tristar Terminals, Inc. (TTGI) to increase the contract amount by $1,263,448.00 from $4,340,499.35 to $5,603,947.35 for Tank 1934 incremental volume of unpumpable product and sludge to be removed and disposed. Attached copy of approved Change Order No. 5. The completion date will be extended from February 28, 2023 to September 30, 2023.

Should you have any questions, please contact me or Manuel M. Minas at extensions 3214 or 3023 respectively.

VINCENT J. SABLAN, P.E.

Concurred by:

7/6/2023

JOHN J. CRUZ JR., P.E.
AGMETS

Date

Approved by:

7/6/2023

for JOHN M. BENAVENTE, P.E.
General Manager

Date

Attachment
Cc: Project File

GUAM POWER AUTHORITY

ATURIDÅT ILEKTRESEDÅT GUÅHAN
P.O.BOX 2977 • HAGÅTÑA, GUAM U.S.A. 96932-2977

CONSTRUCTION CHANGE ORDER

In Connection with Contracts and affecting Capital Expenditures

Department Engineering Issue No. 05 Date June 28, 2023
Description of Project: Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Storage Tanks
Name of Contractor: Tristar Terminals Guam Inc. (TTGI)
Contract No.: _____ Specification No.: _____
Purchase Order No.: 29281 OP
Initial Appropriation: A.P.E. No. N/A Supplemental Appropriation: A. P.E. No. N/A

Changes in design and/or construction, which are described as follows and/or set forth in attachments appended hereto, are considered essential and necessary to the completion of this project.

Tank 1934 incremental volume of unpumpable product and sludge to be removed and disposed - $ 1,263,448.00

Attached Tristar Terminals, Inc. TTGI-VC-012 cost proposal dated April 24, 2023.

These changes in the work are requested in accordance with the Standard General Conditions and Technical Specifications of the Construction Contract.

Contract covering this project was initially approved by the Guam Power Authority in the amount of $ 4,340,499.35. The cost of the changes under this change order will increase by supplemental contract, with the stated money amount of $ 1,263,448.00. The total contract price with this change order is $ 5,603,947.35.

REASONS FOR AND RECOMMENDATIONS SUPPORTING CHANGE

Completion of the additional task is vital due to USEPA compliance schedule.

Signed: Engineering By: Vincent J. Sablan, P.E.
Manager of Engineering

Concurred by: John J. Cruz Jr., P.E.
AGMETS

CERTIFICATION OF APPROVING AUTHORITIES

We, the undersigned have carefully examined this change order inclusive of the conditions justifying its issuance. The request and recommendations of issuing authority is hereby approved and with the recommendation that it be accorded GPA approval and the GPA procurement be authorized to prepare the necessary legal documents applicable to same. This approval does not in any way authorize the Contractor to proceed with the execution of the work until such time that an Amendment to the Purchase Order is approved and issued to Contractor.

FUNDS APPROVED:
John J. Kim
John J.E. Kim
CFO

Date: July 17, 2023 20____

APPROVED:
for John M. Benavente, P.E.
General Manager

Date: July 6, 2023

TTGI/PRJT/OUT/APR/2023/001B

April 24, 2023

Mr. Manny Minas
Guam Power Authority (GPA)
PO Box 2977
Hagatna, Guam 96932-2977

SUBJECT: TTGIVC012 – Option#2 – Tank 1934 Non-Hazardous Waste Disposal – Change Order
Contract# C-028-19
Invitation#GPA-028-19
PO# 27002 OP
Project Name: Out of Service Inspection and Refurbishment of GPA Bulk Storage Fuel Tanks

Dear Mr. Minas,

Tristar Terminals Guam, Inc. (TTGI) proposes the following alternate proposal for the operation to recover and dispose the unpumpable product remaining within Tank 1934. This proposal will reduce the cost of disposal. The proposed method is to transfer the whole sludge/wax buildup/ solids accumulated on the tank bottoms to a small tank within Tristar Terminals Guam, Inc. (TTGI) and blending with lighter product (cutter stock) to break down. As discussed in our meeting dated*) March 30, 2023*, the consolidated Tank 1934 bottom product shall be transferred to TTGI's Agat terminal and blended. Tabulated further below for your consideration is our estimated cost for this change order proposal. TTGI estimates the operation shall take a minimum of 9 weeks to complete. Upon receiving GPA's decision, a detailed change order form along with a project schedule shall be provided to GPA.

TTGI is confident that the recovery efforts shall result in approximately 80% usable product from the current quantity of approximately 3,500 barrels of unpumpable inventory in Tank 1934. Please note that with the addition of 1,400 barrels of cutter stock, the total recoverable quantity potentially increases to 3,920 barrels.

TTGI further proposes to take risk, title, and ownership of the recovered product/slops. TTGI is proposing a fee of $0.20 per gallon for the handling and storage of the recovered product received into a nominated tank. This proposal provides GPA with immediate savings to the tune of $800k or 40% and is effective and a practical solution to manage the residual oil generated and dispose the unpumpable product in a cost-efficient manner.

Proposed Operation

TTGI operations personnel shall enter the tank 1934 and manually move the sludge to the side sumps. Vacuum trucks will be utilized to remove the sludge from the sumps. During this operation approximately 20%, by volume, cutter stock will be added to break up the sludge and for free flow into vacuum trucks. Those recovered sludge with cutter stock will be transported to TTGI's tank (1931 or 1927) for further blending and circulation. TTGI will then circulate the product for 1-week, using a portable transfer pump, to breakdown, as much as possible.

Upon completion of the abovementioned, TTGI shall then coordinate with GPA and GPA's nominated surveyor to transfer the pumpable qty of fuel oil formed by blending via pipeline to TTGI's tank. Any remaining sludge which does not dissolve with cutter stock shall then be consolidated into drums and disposed of at an EPA approved site. All fees assessed to GPA for the unrecoverable product disposal operation shall be based on actual efforts and volumes.

Mailing Address: P.O Box 8210, Agat Guam 96928 Physica Address: Agat Terminal, Route 2A, Santa Rita Industrial Drive, Agat, Guam 96915
Tel. +1 671 565 2300; Fax +1 671.565.3909; Tristar Terminals Guam, Inc www.tristar-group.co/www.agility.com

TRISTAR | Agility Defense & Government Services

Costing Table

	Description of Recovery Options	Material	Labor	Equipment & Other	Total Cost	
a	Confined Space entry for the collection of Tank 1934 bottomsstock by TTGI . Transfer of tank bottom stock by vacuum truck or road tanker to Agat Terminal by TTGI and 3rd party provider.	12,220	576,680	196,560	785,460	
b	Fees for piping modifications and transfer equipment			-	Waived	
c	Cutter Stock - 1400 Bbls	43,750			43,750	
1	**Product Recovery Operations**	55,970	576,680	196,560	829,210	A
2	**Administration of Recovered Product- 3920 bbls @$0.20/gallon(Variable Cost - Charged per Actual)**				32,928	B
3	**Product Disposal - 41160 gallons @ $9.75 Per Gallon (Variable Cost - Charged as per actual disposal)**				401,310	C
	Total Fixed Cost of Product Recovery	**55,970**	**576,680**	**196,560**	**829,210**	
	Total Fixed Cost to GPA				**829,210**	A
	Total Variable Cost to GPA(Approximate)				**434,238**	B & C
	Total Cost				**1,263,448**	

Disclaimer

1. TTGI shall not be responsible for the quality of the recovered product.
2. Disposal shall be completed through an EPA certified third-party service provider.
3. TTGI cost basis includes modification, cutter stock, product blending operations, internal tank to tank transfer, and pipeline transfers to a nominated storage tank.
4. All product testing shall be at GPA's cost.
5. Product administration and disposal shall be assessed according to the actual quantity disposed which shall be measured according to the manifest produced by the disposing facility.
6. All operations shall commence only upon TTGI's receipt of a letter of approval or a purchase order from GPA.

Should you need further clarification regarding this letter please feel free to call me at 565-2333.

Sincerely yours,

KK Vikraman
General Manager

Encl
1) TTGI original change order proposal for disposal of sludge at Tank 1934(TTGIVC012)