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1.1 DESCRIPTION OF WORK	In general, work under this contract consists of: 1) draining, cleaning, dismantling, removing and dispensing three 909 litre above ground diesel storage tanks, and; 2) installation of two new 909 litre above ground diesel storage tanks, appurtenances, and monitoring console as shown on the contract drawings. Refer to contract drawings for detailed information related to the scope of work.
	2 Site of Work is at: Point Escuminac Light Station, Point Escuminac, Northumberland County, New Brunswick.
	3 Site is an unmanned, secure location. All site work will be scheduled and coordinated with Department of Fisheries and Oceans, Canadian Coast Guard (CCG) personnel. CCG personnel will provide access and remain on site during performance of all work.
1.2 FAMILIARIZATION WITH SITE	Before submitting a bid, it is recommended that bidders visit the site (not mandatory) to review and verify the form, nature and extent of the work, materials needed, the means of access and the temporary facilities required to perform the Work.
	2 Obtain prior permission from the Departmental Representative before carrying out such site inspection. Security clearance is required prior to entry to site.

1.3 CODES AND

STANDARDS

.1 Perform work in accordance with the CSA B139 Series-15 Installation Code for Oil Burning Equipment, The National Fire code of Canada 2015, and any other code of provincial or local application, including all amendments up to bid closing date, provided that in any case of conflict or discrepancy, the more stringent requirement shall apply.

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	2 Materials and workmanship must meet or exceed requirements of specified standards, codes and referenced documents.
1.4 TERM ENGINEER .	Unless specifically stated otherwise, the term Engineer where used in the Specifications and on the Drawings shall mean the Departmental Representative as defined in the General Conditions of the Contract.
1.5 DOCUMENTS REQUIRED	<pre>1 Maintain at job site, one copy each of the following: .1 Contract Drawings .2 Specifications .3 Addenda .4 Reviewed Shop Drawings .5 List of outstanding shop drawings .6 Change Orders .7 Other modifications to Contract .8 Field Test Reports .9 Copy of Approved Work Schedule .10 Other documents as stipulated elsewhere in the Contract Documents. .11 Existing Environmental Emergency Response Plan is posted on-site. A copy will be provided to the Contractor by the Departmental Representative for review prior to start of work.</pre>
1.6 PERMITS .	In accordance with the General Conditions, obtain and pay for building permit, certificates, licenses and other permits as required by municipal, provincial and federal authorities.
	Provide appropriate notifications of project to municipal and provincial inspection authorities.
	Obtain compliance certificates as prescribed by legislative and regulatory provisions of

Diesel Fuel Storage System Upgrades Point Escuminac Light Station Point Escuminac, NB DFO RPSS No. F4709-1515		ENERAL	INSTRUCTIONS	Section 01 10 10 Page 3 2015-11-06
		-		and federal able to the performance
	. 4	of app	lication forms	Representative, a copy and approval documents referenced authorities.
1.7 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING	.1	or dis normal Depart	turbance to fac use of premise	t possible interference cility operations and es. Arrange with atative to facilitate
	.2		e temporary bar ry points into	riers, warning signs in the work area.
1.8 CUTTING, FITTING AND PATCHING	.1	Not ap	plicable	
1.9 EXISTING SERVICES	.1	and ex and en	tent of service sure services r otected and rem	ck, establish location e lines in area of work not related to the work main active and
1.10 BUILDING SMOKING ENVIRONMENT	.1	Comply	with smoking r	restrictions.

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1.1 RELATED SECTIONS	.1	Section 01 10 10 - General Instructions.
	.2	Section 01 35 29 - Health and Safety Requirements.
	.3	Section 01 78 00 - Closeout Submittals.
	. 4	Section 33 56 13 - Fuel Storage Tank Aboveground
	.5	Section 33 65 13 - Petroleum System Distribution
1.2 SUBMITTAL GENERAL REQUIREMENTS	.1	Submit to Departmental Representative for review requested submittals specified in various sections of the specifications including shop drawings, samples, permits, compliance certificates, test reports, work management plans and other data required as part of the work.
	.2	Submit with reasonable promptness and in orderly sequence so as to allow for Departmental Representative's review and not cause delay in Work. Failure to submit in ample time will not be considered sufficient reason for an extension of Contract time and

.3 Do not proceed with work until relevant submissions have been reviewed.

default will be allowed.

.4 Present shop drawings, product data, samples and mock-ups in SI Metric units.

no claim for extension by reason of such

- .5 Where items or information is not produced in SI Metric units, provide soft converted values.
- .6 Review submittals prior to submission. Ensure that necessary requirements have been determined and verified and that each

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submittal has been checked and co-ordinated with requirements of Work and Contract Documents.

- .1 Submittals not stamped, signed, dated and identified as to specific project will be returned unexamined by Departmental Representative and considered rejected.
- .7 Verify field measurements and affected adjacent Work are coordinated.
- .8 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .9 Contractor's responsibility for errors, omissions or deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative's review.
- .10 Submittal format: Adobe .pdf file format submitted via email is acceptable. Submittals must be clear and legible.
- .11 Make changes or revision to submissions which Departmental Representative may require, consistent with Contract Documents and resubmit as directed by Departmental Representative. When resubmitting, identify in writing of any revisions other than those requested.
- .12 Keep one reviewed copy of each submittal document on site for duration of Work.

1.3 SHOP DRAWINGS AND PRODUCT DATA

.1 The term "shop drawings" means fabrication drawings, erection drawings, diagrams, illustrations, schedules, performance charts, technical product data, brochures, specifications, test reports installation instructions and other data which are to be

Diesel Fuel Storage SUBMITTAL PROCEDURES Section 01 33 00
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provided by Contractor to illustrate compliance with specified materials and details of a portion of work.

.2 Shop Drawing Submittal Schedule:

- .1 Submit within 5 working days of acceptance of bid a schedule listing all shop drawings to be submitted for project.
- .2 Schedule shall be in format acceptable to Departmental Representative and indicate proposed submission date for each item, status of review and anticipated product delivery date to site. Track all submissions for entire project.
- .3 Revise schedule as work progresses. Identify items which have been reviewed and finalized and indicating those outstanding.
- .4 Update schedule at stipulated dates or project time intervals predetermined and agreed upon with Departmental Representative at commencement of Work.

.3 Shop Drawings Format:

- .1 Product Data from manufacturer's standard catalogue sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products, to be original full colour brochures, clearly marked indicating applicable data and deleting information not applicable to project.
- .2 Non or poorly legible drawings, photocopies or facsimiles will not be accepted and returned not reviewed.

.4 Shop Drawings Content:

.1 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where items or equipment attach or connect to other items or equipment, confirm that all interrelated work have been coordinated, regardless of section or trade

from which the adjacent work is being supplied and installed.

- .2 Supplement manufacturer's standard drawings and literature with additional information to provide details applicable to project.
- .3 Delete information not applicable to project on all submittals.
- .5 Allow 5 calendar days for Departmental Representative's review of each submission.
- .6 Adjustments or corrections made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, advise Departmental Representative in writing prior to proceeding with Work.
- .7 If upon review by Departmental
 Representative, no errors or omissions are
 discovered or if only minor corrections and
 comments are made, fabrication and
 installation may proceed upon receipt of shop
 drawings. If shop drawings are rejected and
 noted to be Resubmitted, do not proceed with
 that portion of work until resubmission and
 review of corrected shop drawings, through
 same submission procedures indicated above.
- .8 Be advised that costs and expenses incurred by Departmental Representative to conduct more than one review of incorrectly prepared shop drawing submittal for a particular material, equipment or component of work may be assessed against the Contractor in the form of a financial holdback to the Contract.
- .9 Submissions shall include:
 - .1 Date and revision dates.
 - .2 Project title and project number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.

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.3 Manufacturer.

- .4 Contractor's stamp, signed by Contractor's authorized Representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
- .5 Cross references to particular details of contract drawings and specifications section number for which shop drawing submission addresses.
- .10 After Departmental Representative's review, distribute copies.
- .11 The review of shop drawings by the Departmental Representative or designate is for sole purpose of ascertaining conformance with general concept. This review shall not mean that Canada approves the detail design inherent in the shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting all requirements of the construction and Contract Documents. Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of all sub-trades.

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1.1 RELATED WORK	.1	Section 01 10 10: General	l Instructions.
1.2 DEFINITIONS	.1	COSH: Canada Occupational Regulations made under Pa Labour Code.	_
	.2	Competent Person: means a .1 Qualified by virtue knowledge, training and exassigned work in a manner the health and safety of workplace, and; .2 Knowledgeable about	of personal aperience to perform that will ensure persons in the

the Work.

.3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.

occupational health and safety statutes and

danger to health or safety associated with

Knowledgeable about potential or actual

regulations that apply to the Work and;

- .4 PPE: personal protective equipment
- .5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.3 SUBMITTALS .1 Make submitt

- .1 Make submittals in accordance with Section 01 33 00.
- .2 Submit name of designated Health & Safety Site Representative.
- .3 Submit building permit, compliance certificates and other permits obtained.

Diesel Fuel Storage HEALTH AND SAFETY Section 01 35 29
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- .4 Submit copy of Letter in Good Standing from Provincial Workers Compensation or other department of labor organization.
 .1 Submit update of Letter of Good Standing whenever expiration date occurs during the period of Work.
- .5 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .6 Submit copies of incident reports.

1.4 COMPLIANCE REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act for Province of New Brunswick, and General Regulations made pursuant to the Act.
- .2 Comply with Canada Labor Code Part II (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.
 - .1 The Canada Labor Code can be viewed at: www.http://laws.justice.gc.ca/en/L-2/
 - .2 COSH can be viewed at:
 www.http://laws.justice.gc.ca/eng/SOR-86-3
 04/ n e .html
 - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A OS9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F)
- .3 Observe construction safety measures of:
 - .1 Part 8 of the National Building Code
 - .2 Municipal by-laws and ordinances.
 - .3 the National Fire Code
- .4 In case of conflict or discrepancy between above specified requirements, the more stringent shall apply.
- .5 Maintain Workers Compensation Coverage in

Diesel Fuel Storage System Upgrades Point Escuminac Light Station	HEALTH AND SAFE REQUIREMENTS	Section 01 35 29
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	Provide proof	for duration of Contract. of clearance through submission Good Standing.
	legislation o	eillance: Where prescribed by or regulation, obtain and ter medical surveillance
1.5 RESPONSIBILITY	persons on si and for protec adjacent to t	e for health and safety of te, safety of property on site ction of persons and environment he site to extent that they may by conduct of Work.
	workers, sub- granted acces requirements applicable fe	and enforce compliance by all contractors and other persons is to Work Site with safety of Contract Documents, ederal, provincial, and local clations, and ordinances.
1.6 SITE CONTROL AND ACCESS	personnel wil	manned secure location. CCG l provide access and will remain g performance of all work.

safe environment.

- .2 Isolate Work Site from other areas of the premises by use of appropriate means.
 .1 Erect barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, create a
- .3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
- .4 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections as required.

Diesel Fuel Storage System Upgrades Point Escuminac Light Station	HEALTH AND SAFETY Section 01 35 29 REQUIREMENTS
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.5	Secure Work Site against entry when inactive or unoccupied and to protect persons against harm.
1.7 PROTECTION .1	Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
.2	Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.
1.8 FILING OF .1 NOTICE	File Notice of Project with pertinent provincial health and safety authorities prior to beginning of Work. 1 Departmental Representative will assist in locating address if needed.
1.9 PERMITS .1	Post permits, licenses and compliance certificates, specified in section 01 10 10, at Work Site.
.2	Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.
1.10 HAZARD .1 ASSESSMENTS	Perform site specific health and safety hazard assessment of the Work and its site.
.2	Carryout initial assessment prior to commencement of Work with further assessments as needed during progress of work, including when new trades and subcontractors arrive on site.

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•		eep documentation on site for entire aration of the Work.
1.11 PROJECT/SITE . CONDITIONS .	er fo .1 pr	hazard.
•	CC	cove items shall not be construed as being complete and inclusive of potential health and safety hazards encountered during Work.
•		nclude above items in the hazard assessment the Work.
	CC	SDS Data sheets of pertinent hazardous and ontrolled products stored on site can be otained from Departmental Representative.
1.12 MEETINGS .	sa Co	onduct regularly scheduled tool box and afety meetings during the Work in onformance with Occupational Health and afety regulations.
	2 K€	eep documents on site.
1.13 HEALTH AND . SAFETY PLAN	L No	ot used.
1.14 SAFETY . SUPERVISION	re	mploy Health & Safety Site Representative esponsible for daily supervision of health and safety of the Work.

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- .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
 - .1 Implement, monitor and enforce daily compliance with health and safety requirements of the Work
 - .2 Conduct site safety orientation session to persons granted access to Work Site.
 - .3 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to their activities at the site or are escorted by a competent person while on the Work Site.
 - .4 Stop the Work as deemed necessary for reasons of health and safety.
- .3 Health & Safety Site Representative must:
 - .1 Be qualified and competent person in occupational health and safety.
 - .2 Have site-related working experience specific to activities of the Work.
 - .3 Be on Work Site at all times during execution of the Work.
- .4 All supervisory personnel assigned to the Work shall also be competent persons.

1.15 TRAINING

- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
- .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
- .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental

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	Representative verbally and in writing.
1.16 MINIMUM .1 SITE SAFETY RULES	Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site: .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses and hearing protection. .2 Immediately report unsafe condition at site, near-miss accident, injury and damage. .3 Maintain site and storage areas in a tidy condition free of hazards causing injury. .4 Obey warning signs and safety tags.
.2	Brief persons of disciplinary protocols to be taken for non compliance.
1.17 CORRECTION OF .1 NON-COMPLIANCE	Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
. 2	Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
.3	Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.
1.18 INCIDENT .1 REPORTING .1	Investigate and report the following incidents to Departmental Representative: .1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency.

Diesel Fuel Storage System Upgrades Point Escuminac Light Station	H	EALTH AND SAFETY REQUIREMENTS	Section 01 35 29
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	2	.2 Medical aid injurie .3 Property damage in e .4 Interruptions to Fa resulting in an operation department in excess of Submit report in writing	xcess of \$10,000.00, acility operations hal lost to a Federal \$5000.00.
1.19 HAZARDOUS . PRODUCTS	1	Comply with requirements Hazardous Materials Info	=
	2	Keep MSDS data sheets for delivered to site1 Post on site2 Submit copy to Deparameters3 For interior work in Facility, post additional publically accessible local	ertmental en an occupied l copy in one or more
1.20 BLASTING .	1	Blasting or other use of permitted on site.	explosives is not
1.21 POWDER ACTUATED . DEVICES	1	Use powder actuated fast after receipt of written Departmental Representat	permission from
1.22 CONFINED . SPACES	1	Abide by occupational he regulations regarding wo spaces.	_
	2	Obtain an Entry Permit in XI of the Canada Occupat Safety Regulations for enidentified confined space Facility or premises of .1 Obtain permit from .2 Keep copy of permit	tional Health and attry into an existing ce located at the Work. Facility Manager
	3	Safety for Inspectors:	

Diesel Fuel Storage System Upgrades Point Escuminac	HEALTH AND SAFETY REQUIREMENTS	Section 01 35 29
Light Station Point Escuminac, NB		Page 9
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	Representative and other entry into confined sinspections2 Be responsible for	or efficacy of equipment during their entry and
1.23 SITE RECORDS .1	documentation and rep produced in compliance Regulations of author	
.2	-1 - 1 ,	ailable to Departmental Chorized Safety Officer
1.24 POSTING OF .1 DOCUMENTS	and orders are posted on Work Site in accor	ems, articles, notices in conspicuous location dance with Acts and ce having jurisdiction.

Diesel Fuel Storage System Upgrades Point Escuminac Light Station	ENVIRONMENTAL PROCEDURES Section 01	
Point Escuminac, NB DFO RPSS No. F4709-15150		age 1 11-06
1.1 RELATED WORK .	Section 01 35 29 - Health and Safety Requirements.	
1.2 DEFINITIONS .	Hazardous Material: Product, substance, organism that is used for its original purpose; and that is either dangerous or a material that may cause adverse in to the environment or adversely affect he of persons, animals, or plant life when released into the environment.	goods mpact ealth
1.3 FIRES .	l Fires and burning of rubbish on site are permitted.	e not
1.4 HAZARDOUS MATERIAL HANDLING	Store and handle hazardous materials in accordance with applicable federal and provincial laws, regulations, codes and guidelines. Store in location that will prevent spillage into the environment.	d
•	Label containers to WHMIS requirements keep MSDS data sheets on site for all hazardous materials.	and
•	Maintain inventory of hazardous material hazardous waste stored on site. List it by product name, quantity and date when storage began.	tems
	Store and handle flammable and combust: materials in accordance with National Mode.	
•	Transport hazardous materials in accordance with federal Transportation of Dangerou Goods Regulations and applicable Province regulations.	us

Diesel Fuel Storage System Upgrades Point Escuminac Light Station	ENVIRONMENTAL PROCEDURES Section 01 35 43
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1.5 DISPOSAL OF .1 WASTES .2	site. Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites. Dispose of hazardous waste in accordance with applicable federal and provincial laws,
1.6 .1 ENVIRONMENTAL RESPONSE PLAN	regulations, codes and guidelines. Existing Environmental Emergency Response Plan is posted on-site. A copy will be provided to the Contractor by the Departmental Representative for review prior to start of work.

Diesel Fuel Storage		CLOSEOUT PROCEDURES	Section 01 77 00
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1.1 SECTION INCLUDES	.1	Administrative procedures inspection and acceptance Departmental Representati	of Work by
1.2 RELATED SECTIONS	.1	Section 01 78 00 - Closec	ut Submittals.

Documents.

1.3 INSPECTION AND DECLARATION

- .1 Contractor's Inspection: Coordinate and perform, in concert with subcontractors, an inspection and check of all Work. Identify and correct deficiencies, defects, repairs and perform outstanding items as required to complete work in conformance with Contract
 - .1 Notify Departmental Representative in writing when deficiencies from Contractor's inspection have been rectified and that Work is deemed to be complete and ready for Departmental Representative's inspection of the completed work.
- .2 Departmental Representative's Inspection:
 Accompany Departmental Representative during
 all substantial and final inspections of the
 Work.
 - .1 Address defects, faults and outstanding items of work identified by such inspections.
 - .2 Advise Departmental Representative when all deficiencies identified have been rectified.
- .3 Note that Departmental Representative will not issue a Certificate of Substantial Performance of the work until such time that Contractor performs the following work and turns over the specified documents:
 - .1 Project record as-built documents;
 - .2 Compliance certificates from applicable authorities;
- .4 Correct all discrepancies before Departmental Representative will issue the Certificate of Completion.

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1.1 SECTION INCLUDES	.1	Project	Record Documents	s.
1.2 RELATED SECTIONS	.1	Section	01 33 00 - Subm.	ittal Procedures
	.2	Section	01 77 00 - Close	eout Procedures
1 3 DRAIFCT BECARD	1	Donartmo	ontal Donrosonta	tive will provide ?

- 1.3 PROJECT RECORD DOCUMENTS
- .1 Departmental Representative will provide 2 white print sets of contract drawings and 2 copies of Specifications Manual specifically for "as-built" purposes.
- .2 Maintain at site one set of the contract drawings and specification to record actual as-built site conditions.
- .3 Maintain up-to-date, real time as-built drawings and specifications in good condition and make available for inspection by the Departmental Representative upon request.
- .4 As-Built Drawings:
 - .1 Record changes in red ink on the prints. Mark only on one set of prints and at completion of work, neatly transfer notations to second set (also by use of red ink).
 - .2 Submit both sets to Departmental Representative prior to application for Certificate of Substantial Performance.
 - .3 Stamp all drawings with "As-Built Drawings". Label and place Contractor's signature and date.
 - .4 Show all modifications, substitutions and deviations from what is shown on the contract drawings or in specifications.
- .5 As-built Specifications: legibly mark in red each item to record actual construction.
- .6 Maintain As-built documents current as the contract progresses. Departmental Representative will conduct reviews and

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inspections of the documents on a regular basis. Failure to maintain as-builts current and complete to satisfaction of the Departmental Representative shall be subject to financial penalties in the form of progress payment reductions and holdback assessments.

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1.1 RELATED .1 SECTIONS	Section 01 10 10 - General Instructions
.2	Section 33 65 13 - Petroleum System Distribution
2.1 MAINTENANCE .1 DATA	Not Applicable
3.1 PRODUCTS .1	Aboveground Steel Tank Fuel Oil System - ULC S670
	The Contractor is required to supply and install two new, 909 litre aboveground double-walled fiberglass CAN/ULC S670 or equal shop fabricated fuel oil storage tanks. The tanks are to come complete with the following:
	 tank decals indicating storage capacity and product stored
	 ULC identification tag overfill prevention (vent whistle) installed on one tank only as indicated on the contract drawing.
	mechanical tank gaugesupport saddles
	• laminated dip chart
	Tank Fitting Requirements:
	• 4×2 " (50 mm) dia. top fittings

Approved tank manufacturers are Vilco product code D202 (Note: Additional Fittings Required) or equal.

• 1 x 2" (50 mm) bottom, end tank

connection

• 1 interstitial space access top fitting

Diesel Fuel Storage System Upgrades	FUEL STORAGE TANK Section 33 56 13 ABOVEGROUND
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4.1 SUBMITTALS .1	Submit shop drawings in accordance with Section 01 33 00 Submittal Procedure.
5.1 INSTALLATION .1	As per; CSA B139 Installation Code for Oil Burning Equipment, National Fire Code of Canada, and manufacturer's recommendations and specifications.
.2	Position tank using manufacturer approved methods and manufacturer's supplied lifting lugs.
.3	Test tanks as per manufacturer's specifications.
6.1 INSTALLER .1 CERTIFICATION	Installer shall be a certified petroleum installer licensed with New Brunswick Department of Environment and Local

Government.

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1.1 RELATED .1 SECTIONS	Section 01 10 10 - General Instructions	
.2	Section 33 56 13 - Fuel Storage Tank Aboveground	
1.2 REFERENCES .1	ANSI/ASME B16.11, Forged Fittings, Socke Welding and Threaded.	t-
.2	ANSI/ASME B16.3, Malleable Iron Threaded Fittings: Classes 150 and 300.	
.3	ANSI/ASME B16.39, Malleable Iron Threaded Unions: Classes 150, 250 and 300.	d Pipe
. 4	ASTM B88, Standard Specification for Sear Copper Water Tube.	mless
.5	ASTM A53, Standard Specification for Pipe Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.	
.6	ASTM A106, Standard Specification for Sea Carbon Steel Pipe for High-Temperature Service.	amless
.7	All codes and standards are to be latest editions unless noted otherwise.	
1.3 SUBMITTALS .1	Submit shop drawings in accordance with Section 01 33 00 Submittal Procedure.	

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2.1 PIPING

.1 Pipe:

- .1 Carbon steel:
- .2 75 mm and smaller: Schedule 40 Seamless to ASTM A-106 Gr. B, or ASTM A-53 Gr. B, Type S.

.2 Pipe:

- .1 Copper:
- .2 Type L, hard drawn copper tubing jacketed.
- .3 Standard of Acceptance: Protec jacketed or equal.

.3 Fittings:

- .1 Carbon steel:
- .2 50 mm and smaller: ANSI/ASME B16.3, ASTM A-105, ANSI B16.11 and B1.20.1, threaded or socket welded.

.4 Joints:

- .1 Buried: Not applicable.
- .2 Aboveground: welded joints conforming to provincial, federal and municipal regulations or requirements of CSA W47.1 and; threaded joints using compound approved by Consultant for product being handled (socket welded joints are permissible).
- .3 Copper: Brass-flared fittings
- .4 All pipe ends to be properly prepared, de-burred and free from defects prior to making joints.

.5 Flexibility:

- .1 Incorporate into construction as required.
- .6 Corrosion and product protection:
 - .1 All black steel piping, and fittings shall be surface prepared and painted (1 coat epoxy primer, 2 coats epoxy enamel).

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2.2 VALVES .1

50 mm and smaller, 150 WOG Rating minimum, steel, threaded ends, 2-piece design, full bore, fire tested to API Standard of Acceptance: Velan EE-1000.

2.3 SPILL . 1 Spill Containment Box: CONTAINMENT BOX

3.5 gallon, 2" (50 mm) NPT, white. .1 Standard of Acceptance: Pomeco/OPW 6221-ASTW32.

2.4 Monitoring . 1 Monitoring System: System

- Console: suitable for use in diesel fuel . 1 handling environment, RS-232 communications interface, continuous tank level monitoring, audible and display alarms, integral output relays, site fax modem, ethernet card. Standard of Acceptance: Veeder Root TLS-300I.
- Tank Level Monitor: 50mm (2") . 2 diesel/water float kit and riser, capable of measuring fuel level through full range of fuel height, probe height to suit. Local audible and visual alarm at 90% maximum fuel level. External output signal via monitoring console to DFO CCG communications equipment (24volts DC, 2 amp, max) at 50% of maximum fuel level or less and at 25% of maximum fuel level or less.

Standard of Acceptance: Veeder Root Mag Plus Probe.

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2.5 IDENTIFICATION .1	Valves: identify with tags, octagonal anodized aluminum, red, with green circle for combustible liquid, flammable liquids resistant, fireproof, permanently inscribed with clear legible characters.
2.6 ANCHORS AND .1 GUIDES	As indicated on drawings.
2.7 HANDLING .1	Protect and shield pre-coated equipment and piping.
2.8 COATING .1	Shop application of primer to prefabricated piping sections.
.2	Reprime shop primed pipe with approved primer before coating.
.3	All piping to be primed with 2 top coats of white epoxy enamel.
2.9 PROTECTION .1	Included in the design.
2.10 LOCATION OF .1 PIPING	As indicated or for small bore piping not shown on layout drawings, locate so that it will not constitute hazard to personnel or equipment.
<u>2.11 VALVES</u> .1	Install valves to control flow and to isolate equipment as indicated.
2.12 FLUSHING AND .1 TESTING OF PIPE SYSTEMS	Dispose of flushing liquids to approval of authority having jurisdiction.
.2	Isolate the above-ground storage tank from piping system pressure tests.
.3	Test piping systems with compressed air as per piping manufacture's recommendations.

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. 4	Test steel piping systo ensure no leaks in a B139.1.0 Series 15.	tems with compressed air accordance with CSA
.5	.5 All testing (methods, results) to be documented in reports and submitted to the Owner.	
2.13 INSTALLER .1 CERTIFICATION	Installer shall be a ceinstaller licensed with Department of Environme Government.	n New Brunswick