



City of Tacoma, WA

**CITY OF TACOMA / TACOMA PUBLIC UTILITIES
TRANSMISSION AND DISTRIBUTION**

REQUEST FOR BIDS

UNDERGROUND FAULTED CIRCUIT INDICATORS

SPECIFICATION NO. PT21-0716N



**City of Tacoma
Tacoma Power / Transmission and Distribution**

**REQUEST FOR BIDS PT21-0716N
UNDERGROUND FAULTED CIRCUIT INDICATORS**

Submittal Deadline: 11:00 a.m., Pacific Time, Thursday, February 3, 2022

Submittals must be received by the City's Procurement and Payables Division prior to 11:00 a.m. Pacific Time. For electronic submittals, the City of Tacoma will designate the time of receipt recorded by our email, sendbid@cityoftacoma.org, as the official time of receipt. This clock will be used as the official time of receipt of all parts of electronic bid submittals.

Submittal Delivery: Submittals will be received as follows:

By Email:

sendbid@cityoftacoma.org

Maximum file size: 35 MB. Multiple emails may be sent for each submittal.

Bid Opening: Submittals in response to a RFB will be recorded as received. As soon as possible, after 1:00 PM, on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

Solicitation Documents: An electronic copy of the complete solicitation documents may be viewed and obtained by accessing the City of Tacoma Purchasing website at www.TacomaPurchasing.org.

- [Register for the Bid Holders List](#) to receive notices of addenda, questions and answers and related updates.
- Click here to see a [list of vendors registered for this solicitation](#).

Pre-Proposal Meeting: A pre-proposal meeting will not be held.

Project Scope: Supply of 15kV underground faulted circuit indicators on an as-needed basis.

Estimate: \$95,000 (initial three-year term)

Paid Sick Leave: The City of Tacoma requires all employers to provide paid sick leave as set forth in Title 18 of the Tacoma Municipal Code. For more information, visit [our Minimum Employment Standards Paid Sick Leave webpage](#).

Americans with Disabilities Act (ADA Information: The City of Tacoma, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. Specification materials can be made available in an alternate format by emailing Gail Himes at ghimes@cityoftacoma.org, or by calling her collect at 253-591-5785.

Title VI Information:

"The City of Tacoma" in accordance with provisions of Title VI of the Civil Rights Act of 1964, (78 Stat. 252, 42 U.S.C. sections 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin in consideration of award.

Additional Information: Requests for information regarding the specifications may be obtained by contacting Tisha Rico, Senior Buyer by email to trico@cityoftacoma.org

Protest Policy: City of Tacoma [protest policy](#), located at www.tacomapurchasing.org, specifies procedures for protests submitted prior to and after submittal deadline.



Meeting sites are accessible to persons with disabilities. Reasonable accommodations for persons with disabilities can be arranged with 48 hours advance notice by calling 253-502-8468.

SPECIFICATION CONTENTS

SUBMITTAL CHECKLIST
SUBMITTAL INSTRUCTIONS
SIGNATURE PAGE
PROPOSAL – PRICING SHEET
PROPOSAL – VENDOR INQUIRY
PROPOSAL – SUPPLIER QUALIFICATION

SECTION I – SPECIAL PROVISIONS

1.01 - SCOPE OF BID

- 1.01.1 - PURPOSE
 - 1.01.1A - AWARD OF CONTRACT
- 1.01.2 - DEFINITIONS
- 1.01.3 - QUALIFICATIONS

1.02 - CONTRACT

- 1.02.1 - CONTRACT PERIOD
- 1.02.2 - CONTRACT EXTENSIONS
- 1.02.3 - AWARD DATE OF CONTRACT
- 1.02.4 - TERMINATION OF CONTRACT
- 1.02.5 - EXPANSION CLAUSE

1.03 - PRICING AND PURCHASE ORDERS

- 1.03.1 - PRICES QUOTED
- 1.03.2 - FREIGHT ALLOWANCES
- 1.03.3 - QUANTITIES AND PURCHASE ORDERS
- 1.03.4 - ANNUAL PRICING ADJUSTMENT
- 1.03.5 - UNSCHEDULED ADJUSTMENTS
- 1.03.6 - PROMOTIONAL PRICING

1.04 - RESPONDENT'S PROPOSAL

- 1.04.1 - ENGLISH LANGUAGE REQUIREMENTS

1.05 - ITEMS TO BE INCLUDED WITH SUBMITTAL

- 1.05.1 - PRODUCT DATA SHEETS
- 1.05.2 - MANUFACTURER'S QUALITY ASSURANCE POLICY

1.06 - SAFETY AND STANDARDS

1.07 - MATERIALS, DESIGN, WORKMANSHIP, AND TRADE NAMES

1.08 - EVALUATION & AWARD

- 1.08.1 - AWARD OF CONTRACT
- 1.08.2 - EVALUATION CRITERIA
 - 1.08.2A - OTHER ELEMENTS

1.09 - PACKING AND SHIPPING

- 1.09.1 – LABELING
- 1.09.2 – SHIPPING REQUIREMENTS
- 1.09.3 – SHIPPING NOTICE

1.10 - DELIVERY

- 1.10.1 – DELIVERY DATE
- 1.10.2 – DELIVERY TIME

1.10.3 – DELIVERY LOCATION

1.10.3A – ALTERNATE DELIVERY LOCATION

1.11 - INSPECTION & WARRANTY

1.11.1 - FAILURE OF INSPECTION

1.11.2 - FACTORY INSPECTION

1.11.2A - QUALITY ASSURANCE AUDITS

1.11.2B - QUALITY ASSURANCE DOCUMENTATION

1.11.2C - FACTORY ASSISTANCE DURING INSPECTION

1.11.3 - WARRANTY

1.11.3A – WARRANTY PERIOD EXTENSION

1.11.3B – WARRANTY WORK

1.11.3B.1 – RETURN TIME FRAME

1.12 - INVOICES & PAYMENT

1.12.1 - INVOICES

1.12.2 - PAYMENT

1.12.2A - UNSATISFACTORY PERFORMANCE

1.13 - EQUITY IN CONTRACTING

1.14 - STANDARD TERMS AND CONDITIONS

SECTION II - TECHNICAL PROVISIONS

2.01 - SCOPE

2.01.1 – APPLICATION

2.01.2 – STANDARDS

2.02 – OPERATING CHARACTERISTICS

2.02.1 – MOUNTING REQUIREMENTS

2.02.2 – LOAD TRACKING AND MEMORY

2.02.3 – TRIP OPERATION

2.02.4 – RESET

2.03 – EXTERNAL CHARACTERISTICS

2.03.1 – ENCLOSURE REQUIREMENTS

2.03.2 – INDICATOR REQUIREMENTS

2.03.3 – NAMEPLATE REQUIREMENTS

2.03.4 – CURRENT TRANSFORMER


2.03.5 – CABLE DIAMETER

2.04 – APPROVED MANUFACTURER CATALOG NUMBERS

SUBMITTAL CHECKLIST

This checklist identifies items to be included with your submittal. Any submittal received without these required items may be deemed non-responsive and may not be considered for award. Please do not include the entire specification document with your submittal.

Submittals must be received by the City of Tacoma Purchasing Division by the date and time specified in the Request for Bids page at the front of this Specification or subsequent addenda.

The following items should be included in your submittal package:		
1	One electronic copy of your complete submittal package in PDF format.	
2	Signature Page with <u>signature</u> , including acknowledgement of any addenda. This form is intended to serve as the first page of your submittal after the Title Page. Do not alter it in any way or add it to letterhead paper or present cover letters or blank pages ahead of it.	
3	Proposal Sheets	
4	Supplemental Items to be Included with Submittal - Section 1.05 <ul style="list-style-type: none"> > Product Data Sheets > Manufacturer's Quality Assurance Policy 	

SUBMITTAL INSTRUCTIONS

PRE-SUBMITTAL QUESTIONS

- A. Questions and requests for clarification of these Specifications may be submitted in writing by **3:00 p.m., Pacific Time, January 26, 2022**, via email addressed to the Purchasing contact below. Questions received after this date and time may not be answered.
1. Please indicate the specification number and title in the email subject line.
Example: **PT21-0716N - Underground Faulted Circuit Indicators - Questions**
 2. Present your questions in MS Word format or directly in the body of the email message. If applicable, cross reference the specific section of the RFB.
 3. Questions will not be accepted by telephone or fax (email only)
 4. Questions marked confidential will not be answered.
 5. Individual answers will not be provided directly to Respondents.
 6. The City reserves the discretion to group similar questions to provide a single answer or not to respond when the requested information is confidential.
 7. The City will not be responsible for unsuccessful submittal of questions.
- B. Written answers to all questions will be posted on the Purchasing website at www.TacomaPurchasing.org on or about **January 28, 2022**. Navigate to *Contracting Opportunities / Supplies*, and scroll to this RFB. A notice will not be posted with the Specification if no questions are received.
- C. The answers are not typically considered an addendum.
- D. To receive notice of the posted answers, you must register as “bid holder” for this solicitation.

Communication	Addressee
For all questions regarding Specification PT21-0716N	Tisha Rico Senior Buyer trico@cityoftacoma.org - email

SIGNATURE PAGE

CITY OF TACOMA TACOMA POWER / TRANSMISSION AND DISTRIBUTION

All submittals must be in ink or typewritten, executed by a duly authorized officer or representative of the bidding/proposing entity, and received and time stamped as directed in the **Request for Bids page near the beginning of the specification**. If the bidder/proposer is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

REQUEST FOR BIDS SPECIFICATION NO. PT21-0716N UNDERGROUND FAULTED CIRCUIT INDICATORS

The undersigned bidder/proposer hereby agrees to execute the proposed contract and furnish all materials, labor, tools, equipment and all other facilities and services in accordance with these specifications.

The bidder/proposer agrees, by submitting a bid/proposal under these specifications, that in the event any litigation should arise concerning the submission of bids/proposals or the award of contract under this specification, Request for Bids, Request for Proposals or Request for Qualifications, the venue of such action or litigation shall be in the Superior Court of the State of Washington, in and for the County of Pierce.

Non-Collusion Declaration

The undersigned bidder/proposer hereby certifies under penalty of perjury that this bid/proposal is genuine and not a sham or collusive bid/proposal, or made in the interests or on behalf of any person or entity not herein named; and that said bidder/proposer has not directly or indirectly induced or solicited any contractor or supplier on the above work to put in a sham bid/proposal or any person or entity to refrain from submitting a bid/proposal; and that said bidder/proposer has not, in any manner, sought by collusion to secure to itself an advantage over any other contractor(s) or person(s).

Bidder/Proposer's Registered Name

Signature of Person Authorized to Enter Date
into Contracts for Bidder/Proposer

Address

Printed Name and Title

City, State, Zip

(Area Code) Telephone Number / Fax Number

Authorized Signatory E-Mail Address

State Business License Number
in WA, also known as UBI (Unified Business Identifier) Number

E.I.No. / Federal Social Security Number Used on Quarterly
Federal Tax Return, U.S. Treasury Dept. Form 941

State Contractor's License Number
(See Ch. 18.27, R.C.W.)

E-Mail Address for Communications

Addendum acknowledgement #1_____ #2_____ #3_____ #4_____ #5_____

THIS PAGE MUST BE SIGNED AND RETURNED WITH SUBMITTAL.



**Material Specification PT21-0716N
Underground Faulted Circuit Indicators**

Respondent

PROPOSAL - PRICING SHEET

Item #	Short Description (Refer to Section 2 for technical details)	Tacoma Power MID#	Estimated 3 year Usage	Manufacturer	Catalog Number*	Unit Price (Firm for 1 year Section 1.03.1)	Total Price FOB Destination (Qty X Unit Price)
1	Underground Faulted Circuit Indicator	20024	600	Power Delivery Products	29-6214-000-4	\$	\$
Sub Total for Proposal							\$
Sales Tax @ 10.3%, Location Tax Collected: Tacoma, WA (Note Paragraph 1.41 of the City of Tacoma Standard Terms and Conditions)							\$
Total for All Items with Tax							\$

*The approved manufacturer catalog number is identified in Section 2.04 and in the preceding table. Alternates will not be accepted.

Item #	Short Description	Tacoma Power MID#	Standard Packaging (Units per Package)	Lead Time	Min Release Quantity
1	Underground Faulted Circuit Indicator	20024			

NOTES:

1. Quantities listed on the Proposal Pricing Sheets are an estimate only. Actual quantities will be according to purchase order on an as-needed basis.
2. All prices shall be submitted as F.O.B. Destination, freight prepaid and allowed (included in the unit price).
3. If the unit price does not compute to the extended total price, the unit price shall govern.

PROPOSAL - VENDOR INQUIRY

1. **Does your firm accept payment by EFT/ACH? ____Y ____N**
(Electronic Funds Transfer (EFT) by Automated Clearing House (ACH))
2. **Does your firm accept payment by credit card (Visa)? ____Y ____N**
NOTE: The City of Tacoma will not accept price changes or pay additional fees when a credit card is used.
3. **Prompt Payment discount offered ____%, ____ days.**
Only discounts offered of 20 days or more will be considered for bid evaluation purposes.

PROPOSAL - SUPPLIER QUALIFICATION

Manufacturer	Manufacturing Locations

1. State the number of years the manufacturer has been producing products of a similar scope to those outlined in this Specification. See Section 1.01.3 for minimum qualifications allowed.

	Years
--	--------------

2. Does the manufacturer have in place a third party certified quality assurance program that conforms to ISO 9001, ISO 9002, ANSI/ASQC Q91, or ANSI/ASQC Q92?

YES	
NO	

List the standard used : _____

SECTION I – SPECIAL PROVISIONS

1.01 - SCOPE OF BID

1.01.1 - PURPOSE

The purpose of these Specifications is to define the scope of supply of materials that meet the minimum requirements as to quality, function, and capacity as outlined in the Special and Technical Provisions that follow.

1.01.1A - AWARD OF CONTRACT

With this solicitation, the City intends to award a single contract and does not anticipate award to multiple Suppliers. Regardless, the City reserves the right to award to one or more Suppliers, or make no award, in the best interest of the City.

1.01.2 - DEFINITIONS

For the purposes of this specification, the following definitions shall apply:

Term	Definition
RESPONDENT	A potential Supplier offering a submittal to supply equipment in accordance with these Specifications
SPECIFICATION	This document, detailing the scope of supply
SUPPLIER	The Respondent(s) awarded a contract pursuant to these Specifications
SUBVENDOR	Any Supplier of parts, materials, and/or services to the vendor under these Specifications
EQUIPMENT/ MATERIAL	A fully functional piece of equipment/material supplied and tested in accordance with these Specifications
MANUFACTURER	The original manufacturer of the equipment/material
ENGINEER	The project engineer and/or contract administrator
CITY	The City of Tacoma, Tacoma Power
DELIVERY TIME	The length of time starting at the date of Supplier receipt of a purchase order, purchase order release, or Notice to Proceed and ending at the time that the item(s) are received at Tacoma Power

1.01.3 - QUALIFICATIONS

To further detail the requirements of Section 1.18.A.6 of the City of Tacoma Standard Terms and Conditions, only submittals which offer products from manufacturers experienced in the supply of materials as detailed within this Specification over a period of **five (5) years** or more will be considered responsive.

1.02 - CONTRACT

1.02.1 - CONTRACT PERIOD

The contract is intended for a minimum of **three (3) years** from the award date of the contract.

1.02.2 - CONTRACT EXTENSIONS

Two (2) contract extensions of up to one-year per occurrence may be considered upon mutual agreement of both parties to extend the contract under the same terms and conditions of the original contract.

1.02.3 - AWARD DATE OF CONTRACT

The Award Date of Contract is the date that the City of Tacoma Purchasing Division issues the contract.

1.02.4 - TERMINATION OF CONTRACT

The City reserves the right to cancel the Contract at any time upon prior notice to the Supplier (refer to City of Tacoma Standard Terms and Conditions Section 1.27).

1.02.5 - EXPANSION CLAUSE

Any resultant contract from this RFB may be further expanded in writing to include other related services or products normally offered by the Contractor, as long as the price of such additional services or products have a profit margin equal to or less than that in place at the time of original submittal. Such additions and prices will be established in writing. New items not meeting these criteria will not be added to the contract. Contractor profit margins are not to increase as a result of contract additions.

Any new products or services accepted by the City may be added to this contract and/or substituted for discontinued products or services. New products and services shall meet or exceed all Specifications of original award.

1.03 – PRICING AND PURCHASE ORDERS

1.03.1 - PRICES QUOTED

Per City of Tacoma Standard Terms and Conditions Section 1.16, the prices quoted on the Proposal Pricing Sheets shall remain open for acceptance by the City for a minimum of 90 days from the submittal deadline. **The prices quoted on the proposal sheets shall be firm for the first year of the contract.** Subsequently the prices may be adjusted annually per Section 1.03.4.

1.03.2 - FREIGHT ALLOWANCES

The Respondent shall provide prices including delivery F.O.B. Destination, Pre-Paid and Allowed (included in unit price), as noted on the Proposal Pricing Sheets.

1.03.3 - QUANTITIES AND PURCHASE ORDERS

The quantities listed on the "Proposal - Pricing Sheet" are an estimate only using historical data gathered from the previous six (6) years. The City reserves the right to increase or decrease quantities under this contract and pay according to the unit prices quoted in the proposal (refer to City of Tacoma Standard Terms and Conditions Section 1.35). The purchase order will be delivered to the Supplier by email.

1.03.4 - ANNUAL PRICING ADJUSTMENT

The successful Respondent(s) may submit a request to escalate the unit prices of the items bid annually, on the anniversary date of the contract award. Documentation supporting the request shall be included.

Price increases will be adjusted only to the amount of cost increase to Supplier. No adjustment will be made for Supplier's profit margin. The City reserves the right to accept or reject all such price adjustments.

1.03.5 - UNSCHEDULED ADJUSTMENTS

At the City's discretion, the pricing adjustment terms may be waived for extraordinary conditions that could not have been known by either party at the time of bid or other circumstances beyond the control of both parties.

Requests for increases or decreases, other than scheduled, shall be sent to the Engineer/Contract Manager accompanied by documentation supporting the requested change. No other individual or City Department is authorized to approve such modifications. Changes shall be considered effective upon Supplier's receipt of a revised contract document. Concurrence is implied unless Supplier rejects the changes in writing immediately upon receipt of the revised contract document.

1.03.6 - PROMOTIONAL PRICING

City is entitled to any promotional pricing during contract period that is lower than the Vendor's pricing as provided in bid. This promotional pricing shall include, but not be limited to: sale prices, price lowering, and/or lump-sum rebates.

1.04 – RESPONDENT'S PROPOSAL

1.04.1 - ENGLISH LANGUAGE REQUIREMENTS

All drawings, correspondence, catalogs, submittals, nameplates, etc., shall be in the English language as used in the U.S. Dimensions and tolerances shall conform to ANSI Y14.5M and shall be in the U.S. customary units. If units are fabricated utilizing SI units (metric system), both units shall be shown on the drawings, nameplate, etc.

1.05 - ITEMS TO BE INCLUDED WITH SUBMITTAL

1.05.1 - PRODUCT DATA SHEETS

The Respondent shall include with their submittal manufacturer product data sheets (cut sheets) for each material to be supplied. Manufacturer data furnished **must be sufficient in detail and clarity** to enable making a complete and positive check with compliance of the Technical Provisions of this Specification.

1.05.2 - MANUFACTURER'S QUALITY ASSURANCE POLICY

One (1) copy of the manufacturer's internal "Quality Assurance" policy for the equipment to be supplied shall be included with the submittal. The documentation shall include third party certification of ISO 9000 series qualifications if it has been achieved. The policy documents shall include examples of inspection processes and quality control measures utilized to insure supply of a reliable product.

1.06 - SAFETY AND STANDARDS

The Items supplied shall meet appropriate ANSI, OSHA, WISHA, and all federal, state, and local standards for its intended use. Refer to Section Technical Provisions 2.01.4 for specific industry standards that apply to the Specifications of this bid.

1.07 - MATERIALS, DESIGN, WORKMANSHIP, AND TRADE NAMES

Unless otherwise noted in this Specification, all materials and equipment incorporated into any item covered by the Specifications shall be new and of the most suited of their respective kinds for their intended use. All workmanship shall be in accordance with accepted industry practices.

1.08 - EVALUATION & AWARD

Respondents are to provide unit or lump sum pricing for each line item, which will be summed for a subtotal price. Subtotals will be compared amongst each Respondent, including any offered payment discount terms of 20 days or more.

1.08.1 - AWARD OF CONTRACT

The Contract will be awarded to the lowest and best responsible Respondent(s) delivering a responsive submittal in compliance with these Specifications, provided such submittal is reasonable and it is in the best interests of the City to accept. The City, however, reserves the right to reject any and all bids and to waive any informalities in bids received. The award of this contract will not be based on cost alone, as other factors will be considered in the evaluation criteria

1.08.2 - EVALUATION CRITERIA

In evaluating the proposals, the City will consider any or all of the following:

- Compliance with Specifications
- Proposal prices, listed separately if requested, as well as a lump-sum total
- Minimum order requirements

1.08.2A - OTHER ELEMENTS

The City may also take into consideration other criteria for determining award. Other elements or factors, whether or not specifically provided for in this Specification, which would affect the final cost to and the benefits to be derived by the City, may be considered in determining the award of the contract. The final award decision will be based on the best interests of the City.

1.09 - PACKING AND SHIPPING

The Supplier shall be responsible for industry standard packing that conforms to the requirements of the carrier's tariffs and the ICC regulations.

1.09.1 – LABELING

Each pallet and/or box shall be labeled with:

- Manufacturer Part Number
- Quantity
- City of Tacoma Purchase Order Number

1.09.2 - SHIPPING REQUIREMENTS

Materials shall be shipped in such a fashion that they will arrive at the City without transit-associated damage. A complete packing list must be included.

Tacoma Power reserves the right to request and require a change in shipping company utilized by the Supplier based upon history of damaged goods delivered to Tacoma Power and/or evidence of unsafe work practices by the shipping company.

1.09.3 - SHIPPING NOTICE

The shipper shall notify the Tacoma Power Warehouse a minimum of **24** hours prior to arriving at delivery destination. This notice may be sent **via phone or email** and is required to convey final delivery information and insure sufficient staff available to unload cargo.

Tacoma Power Warehouse	
Contact	Keith Wawrin
Phone Number	(253) 502-8760
Email Address	kwawrin@cityoftacoma.org

1.10 - DELIVERY

1.10.1 - DELIVERY DATE

The Respondent must guarantee delivery times as stated on the "Proposal Sheet – Shipping Data" of the proposal section. The delivery time will be enforced for all releases of this contract and any contract renewals.

1.10.2 - DELIVERY TIME

The completed items shall be delivered between 9:00 a.m. and 3:30 p.m. Monday through Friday excluding City observed holidays as listed in City of Tacoma Standard Terms and Conditions Section 1.24.

1.10.3 - DELIVERY LOCATION

Deliver completed items F.O.B. as directed by the purchase order release to either:

Tacoma Power Warehouse		Tacoma Power
3628 South 35th Street (rear)		South Service Center
Tacoma, Washington 98409	or	3002 224 th St. E
Attention: TPU Light Stores - South End		Spanaway, WA 98387

1.10.3A – ALTERNATE DELIVERY LOCATION

The City retains the option to have the merchandise delivered to an alternate facility or on-site within a 35-mile radius of the Tacoma Power Warehouse. Notification of any change will be on the purchase order release.

1.11 - INSPECTION & WARRANTY

All goods are subject to final inspection and acceptance by the Engineer and Tacoma Power Warehouse employees.

1.11.1 - FAILURE OF INSPECTION

Material failing to meet the requirements of this contract will be held at Supplier's risk and may be returned to Supplier. If so returned, the cost of transportation, unpacking, inspection, repackaging, reshipping, or other like expenses are the responsibility of the Supplier.

Charges for dismantling and reinstallation of materials furnished pursuant to the Contract will be the responsibility of the Supplier only when a change out or replacement is required because of a suspected or known design defect or large scale failure of manufacturer's quality control system.

1.11.2 - FACTORY INSPECTION

The Engineer/Contract manager shall be permitted to witness the manufacture of items supplied per this contract and to perform a "quality audit" of the facility manufacturing.

1.11.2A - QUALITY ASSURANCE AUDITS

The City or its representative may audit the quality assurance program at any time prior to and during the Contract period or its extensions.

1.11.2B - QUALITY ASSURANCE DOCUMENTATION

The manufacturer shall provide, when requested, access to and copies of quality assurance documents such as material certificates, inspection and test results

obtained in the course of quality assurance, control charts, and other quality documents compiled during the work.

1.11.2C - FACTORY ASSISTANCE DURING INSPECTION

The manufacturer shall have engineering, manufacturing, quality control, and operational factory personnel available who speak technical and conversational English without the need of an interpreter.

1.11.3 - WARRANTY

Unless a longer period is specified, the Supplier and/or manufacturer of the supplies, materials and/or equipment furnished pursuant to this Contract agrees to correct any defect or failure of the supplies, materials and/or equipment which occurs within **one year** from the date of commencement of use, however, said warranty period shall not extend beyond **eighteen months** after date of receipt by the City.

When the Supplier is not the manufacturer of the item of equipment, Supplier agrees to be responsible for this warranty and Supplier is not relieved by a manufacturer's warranty.

1.11.3A - WARRANTY PERIOD EXTENSION

The Contract warranty period shall be suspended from the time a significant defect is first documented by the City until the material is repaired or replaced by Supplier and accepted by the City. In addition, in the event less than ninety (90) days remain on the warranty period (after recalculating), the warranty period shall be extended to allow for at least ninety (90) days from the date the work or equipment is repaired or replaced and accepted by the City.

1.11.3B - WARRANTY WORK

All materials requiring warranty work will be returned to the manufacturer at its expense or the manufacturer may replace the defective materials. All replaced materials will be held for pick up (no more than) 30 days after the arrival of replacement materials. Tacoma Power at its discretion will dispose of any materials not picked up within 30 days.

1.11.3B.1 - RETURN TIME FRAME

All warranty repair work on returned material/equipment shall be accomplished within the specified lead-time for delivery listed in the Supplier's bid submittal. Warranty repair time will be calculated from the time the material/equipment defect or failure is reported to the Supplier.

1.12 - INVOICES & PAYMENT

All items called for in these Specifications, including, but not limited to, the necessary drawings and test results, must be supplied to the City before the final invoice can be processed.

1.12.1 - INVOICES

Invoices shall be emailed to:
(Per Section 1.39 of the City of Tacoma Standard Terms and Conditions)

AccountsPayable@cityoftacoma.org

1.12.2 - PAYMENT

Upon certification by the Engineer and/or appropriate warehouse personnel that the items have been received in accordance with the Specifications and are in satisfactory condition, a 100 percent payment will be made. Payment methods include:

- A. Credit card. Tacoma's VISA procurement card program is supported by standard bank credit Suppliers and requires merchants abide by the VISA merchant operating rules.
 - 1. Vendors must be PCI-DSS compliant (secure credit card data management).
 - 2. Vendors must be set up by their card processing equipment provider (merchant acquirer) as a minimum of a Level II merchant with the ability to pass along tax, shipping and merchant references information.
- B. Electronic Funds Transfer (EFT) by Automated Clearing House (ACH).
- C. Check or other cash equivalent.
- D. The City may consider cash discounts when evaluating submittals. See 1.20.A.2 of the Standard Terms and Conditions.

1.12.2A - UNSATISFACTORY PERFORMANCE

In the case of unsatisfactory performance, the payment shall be made after the Supplier has made the necessary repairs and/or modifications and satisfactory performance is obtained, or the unit is replaced.

1.13 - EQUITY IN CONTRACTING

The City of Tacoma is committed to encouraging firms certified through the [Washington State Office of Minority and Women's Business Enterprise](#) to participate in City contracting opportunities. See the TMC 1.07 Equity in Contracting Policy at the City's [Equity in Contracting Program website](#).

1.14 – STANDARD TERMS AND CONDITIONS

City of Tacoma [Standard Terms and Conditions](#) apply.

SECTION II – TECHNICAL PROVISIONS

2.01 – SCOPE

These specifications cover the requirements of faulted circuit indicators (FCI's) and accessories for Tacoma Power. In general, the FCI's are to be hot stick applied with self-adjusting trip rating, timed reset and LED indicator.

2.01.1 – APPLICATION

Fault locating on underground 15kV distribution voltage cables.

2.01.2 – STANDARDS

All FCI's shall meet the most recent editions of the following standards:

Standard Number	Standard Title
IEEE 495	IEEE Guide for Testing Faulted Circuit Indicators

2.02 – OPERATING CHARACTERISTICS

The units shall meet the following operating characteristics:

Characteristic	Minimum Requirement
Flashing Hours	1500
Life expectancy	20 years
Ambient Temperature Range	-40°C to 85°C
Submersion	15ft of water
Impact Resistance	18in drop to a solid surface
Allowable Cable Temperature	130°C
Power Source	Permanently sealed lithium oxide battery with 20 year shelf life

2.02.1 – MOUNTING REQUIREMENTS

The unit shall be able to be installed:

- with one hot stick.
- directly on the cable or loadbreak elbow.

2.02.2 – LOAD TRACKING AND MEMORY

The units will be capable of:

- load tracking at 50A or above.
- peak load memory of a minimum of 72 hours.

2.02.3 – TRIP OPERATION

The unit shall trip in 12 cycles under the following conditions.

If the load current is...	The unit will trip at...
50A or below	200A
above 50A	approximately 4 times the tracked load current

2.02.4– RESET

- The unit will reset in four (4) hours +/- 10% after the unit has been tripped.

2.03 – EXTERNAL CHARACTERISTICS

2.03.1 – ENCLOSURE REQUIREMENTS

The units shall be enclosed within a high-grade thermoplastic or fiber reinforced polymer housing. All electronics shall be encapsulated within potting material or hermetically sealed.

2.03.2 – INDICATOR REQUIRMENTS

- Flashing bright LED
- 30 flashes per minute
- 30 degree viewing angle

2.03.3 – NAMEPLATE REQUIREMENTS

A permanent nameplate shall be included on the unit with the following information:

- Manufacturer's Name
- Date of Manufacturer
- Model Number
- Time Delay Rating

2.03.4 – CURRENT TRANSFORMER

- Closed core stainless steel

2.03.5 – CABLE DIAMETER

Two sizes of units will be required for the smaller and larger diameter cables used in the Tacoma Power distribution system. The cable diameter ranges shall be:

- Item #1 – 0.8 in. to 1.6 in.



Material Specification PT21-0716N Underground Faulted Circuit Indicators

2.04 – APPROVED MANUFACTURER CATALOG NUMBERS

The following units have been approved for use on Tacoma Power's distribution system.

Item #	Manufacturer	Product	Catalog Number
1	Power Delivery Products	Underground Fault Indicator	29-6214-000