

# ADDITIONAL INFORMATION FOR ACTION ITEM – J

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## OVERVIEW

- The Port of Brookings Harbor and the surrounding area does not have a workable tsunami siren.
- The siren located at the Kite Field restroom has not worked in years. This siren belongs to Curry County Emergency Management. Curry County stopped maintaining and operating this siren.
- Curry County has an emergency notification program (Everbride Inc.) that will provide mass notification service. You must sign up to receive this notification.
- Benefits to having a usable siren:
  - Notification to live-aboards or anyone staying on their vessel.
  - Notification to RV Park guests.
  - Notification to tenants and users of the Port.
  - Notification to surrounding area outside the Port.
- Oregon Department of Emergency Management, Chapter 104, Division 30 Adoption of a Uniform Tsunami Signal. This rule establishes set times for testing and emergency alarm tone “wail” period.
- Since 1854, 21 tsunamis have impacted the Oregon Coast. The last two damaging tsunamis were in 1964 as a result of the Great Alaskan Earthquake, and in 2011 as a result of the Great Tohoku Japan Earthquake that caused severe damage and contributed to the deaths of four people on the Oregon Coast.
- The most recent tsunami advisory occurred January 15, 2022, from the volcano Hunga Tonga-Hunga Ha’apai eruption.
- Distant Tsunami – You might hear a siren, you’ll have hours to evacuate. Get to high ground with your ready kit.
- Local Tsunami – The earthquake is your signal to evacuate. Don’t wait for an alert. Get to high ground immediately.
- This purchase is eligible to be used for infrastructure projects under the State and Local Fiscal Recovery Funds (SLFRF).
- This purchase is also eligible for award under SDIS Safety & Security Grant (up to \$5,000).
- If the siren is purchased from ASC, the siren will be connected to NOAA and fully automated, including the testing.

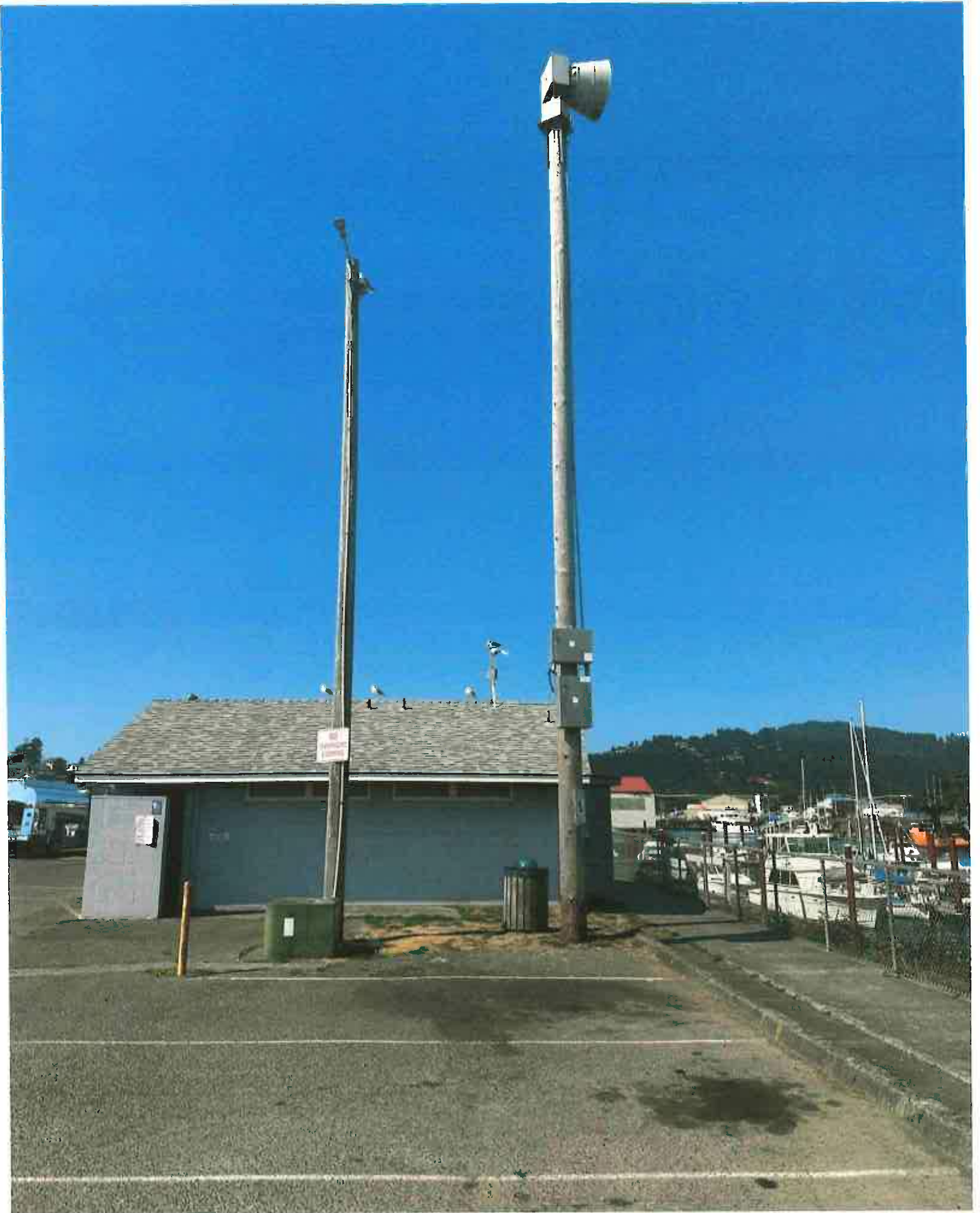
## DOCUMENTS

- Tsunami Siren Procurement Request, 8 pages
- Oregon Department of Emergency Management Chapter 104, Division 30, 3 pages
- SDIS Safety & Security Grant Application, 1 page

## COMMISSIONERS ACTION

- Recommended Motion:  
Motion to approve using the State and Local Recovery Funds to purchase Tsunami Siren from ASC and apply for SDIS Safety & Security Grant.







8600 W. Bradley Road,  
Milwaukee, WI 53224

Tel: (800) 243-2911

Tel: +1 414 358-8000

Fax: +1 414 358-8008

Web: [www.americansignal.com](http://www.americansignal.com)

Sales Person: John Sudano

Quote #: 23091915

Date: 9/15/2023

Project: Brookings

Company: Port of Brookings

Address: 16330 Lower Harbor Rd

City, State, ZIP: Brookings, OR, 97415

Country: USA

Contact Name: Gary Dehlinger

Title: General Manager

E-Mail: [gary.dehlinger@portofbrookings.com](mailto:gary.dehlinger@portofbrookings.com)

Telephone: 541-373-0280

Mobile:

Other:

Item	Qty.	Model	American Signal Equipment	Unit	Extended Price
<b>T-121 AC/DC</b>					
1	1	T-121-DC	Omni Directional Siren 121 db 48v DC Siren	\$ 8,600.00	\$ 8,600.00
2	1	TEMPEST™ AC/DC	AC/DC Motor Control 121 - UL Listed NEMA 4X Aluminum Powder Coated Gray	\$ 8,750.00	\$ 8,750.00
3	1	RTU--DC Door Mt.	RTU, Universal Controller, Panel Mount DC Tempest-MC's	\$ 1,980.00	\$ 1,980.00
4	1	SENSOR - Current	Current Sensor, Tempest-Series	\$ 160.00	\$ 160.00
5	1	KIT-FSK-32-DC	FSK, Format Card, for DC Mechanical Sirens	\$ 260.00	\$ 260.00
6	1	MR-VHF25W	Generic VHF Radio	\$ 1,153.00	\$ 1,153.00
7	1	KIT-RRM	Generic Radio Interface, VHF	\$ 75.00	\$ 75.00
8	1	KIT-OMNI-ANT-7	Antenna, VHF, 35' coax Omni-Directional	\$ 270.00	\$ 270.00
9	1	KIT-ARR-2	Lightning Arrestor, VHF, PL-259	\$ 260.00	\$ 260.00
10	1	BATT-1 M	Battery, 12V, Group 24 - Set of (4) for TEMPEST™ 48Vdc DC Controls for T-121	\$ 1,010.00	\$ 1,010.00
11	1	PM-4	Pole Mount - Tempest T-121	\$ 660.00	\$ 660.00
12					
<b>Command And Control Software &amp; Hardware</b>					
14	1	CSC-960-FSK	Central Station Controller-960, FSK Format includes 10 programmable push buttons	\$ 5,400.00	\$ 5,400.00
15	1	MR-VHF25W	Generic- 25 Watt VHF Radio	\$ 1,153.00	\$ 1,153.00
16	1	KIT-RRM	Generic Radio Interface, VHF	\$ 75.00	\$ 75.00
17	1	KIT-ARR-2	Lightning Arrestor, VHF, PL-259	\$ 260.00	\$ 260.00
18	1	KIT-OMNI-ANT-7	Antenna, VHF, 100' coax Omni-Directional	\$ 480.00	\$ 480.00
19	1	NEXGen	CompuLert™ NEXGen Command and Control Server software with Google Chrome client. Requires Ubuntu LTS Server operating system, and Google Chrome for the Client	\$ 10,200.00	\$ 10,200.00
20	1	Server	Tower Server-Includes RAID 1 data mirroring, 8Gb RAM, 21" Monitor, Keyboard, Mouse. Preloaded with Ubuntu LTS and supporting environment for CompuLert™ NEXGen.	\$ 5,100.00	\$ 5,100.00
<b>Alternate Power Source</b>					
22	1	SOLAR-4	Solar Array (4) Panels and mounting bracket for TEMPEST	\$ 2,460.00	Optional
23			NOAA Auto Activation		
24	1	NOAA Auto Activation	NOAA Auto Activation onto NEXGEN software	\$ 2,500.00	\$ 2,500.00
<b>Installation</b>					
26	1	Install	Assemble Components on Pole. Auger and Set Assembly. Note: 120 VAC, 20 Amp Service, Meter (if required) and Disconnect Brought to the Pole by Others. Underground Utility Locates by Others.	\$ 10,000.00	\$ 10,000.00
27		Existing	55' Wood Pole	Existing	
28	1	Install	Installation of control point and NEXGEN software	\$ 1,000.00	\$ 1,000.00
<b>System Commissioning</b>					
30	1	Commissioning	ASC Certified Installer to Perform Start Up and Commissioning of System. Provide One (1) Day of Operational and Maintenance Training on the System	\$ 1,000.00	\$ 1,000.00
<b>Shipping</b>					
32			EKW:8600 W. Bradley Road, Milwaukee Wisconsin 53224		\$ -
33			Discount Only Applies to Equipment Does Not Apply to Installation & Commissioning	20.00%	\$ (9,189.20)
34			Standard ASC Warranty Applies to Order		\$ 51,176.80
35			Taxes - Not Included		
36			Project Totals - US Funds		\$ 51,176.80

25% Due with order = \$ 12,794.20

### Domestic Payment Terms:

All prices are in USD and Equipment Accounts are 25% due at time of order. (Engineering, Mobilization & Acquisition), 75% due Net 30 days upon shipment of equipment. If project is turn key Installation contract 25% Down payment with 85% Net 30 days upon shipment of equipment to customer designated location or installers site with a 10% retainage. Net 10 days upon final start up and test of system. Payments tendered by Credit Card will be subject to a 4% processing Fee. Payment terms are subject to credit approval.

Validity: This quotation is valid for 30 days from date of issuance.

Shipping Terms: EXW Factory, 8600 W. Bradley Road, Milwaukee Wisconsin 53224 in accordance with Incoterms® 2010.

Installation services: If installation services are provided in contract, all change orders will be authorized in writing before work is performed outside of the scope of the contract. If during installation of a system we encounter rock that cannot be removed by standard drill and pier methods, all work will stop and the customer will be notified of the situation before work resumes. Special equipment required to penetrate the rock or other site conditions as well as relocation of the site/pole will continue on a cost plus basis once authorized in writing by the customer.

These are standard ASC Terms and Conditions and are not reflective of negotiated or proposed contract language under invitations to bid or final requests for



**Brookings, OR**  
T-121 for Tone Coverage  
9/14/2023



**Noise level**  
**Noise level Day**  
in dB(C)



**American Signal Corporation**  
8600 W. Bradley Road  
Milwaukee, WI 53224  
(414) 358-8000

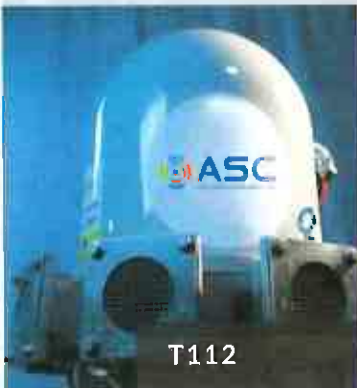
This map was compiled using data believed to be reasonably current and accurate, but a degree of error is inherent in all maps.

# Tempest™ | MECHANICAL SIREN SERIES

ASC's many years of experience in the warning system industry since 1942 has culminated with the advent of the Tempest™ line of the most reliable and coverage effective mechanical sirens on the market to date.

The Tempest™ series of emergency alerting products are used for notification of the public or employees during severe weather situations, hazardous material incidents, wild fires, and other disaster scenarios including military facility attack, terrorism incidents and other amber alerts.

In conjunction with the FEMA, and the National Weather Service's Emergency Alerting System to notify people indoors, the Tempest™ Siren Series is used to notify people outdoors of impending danger.



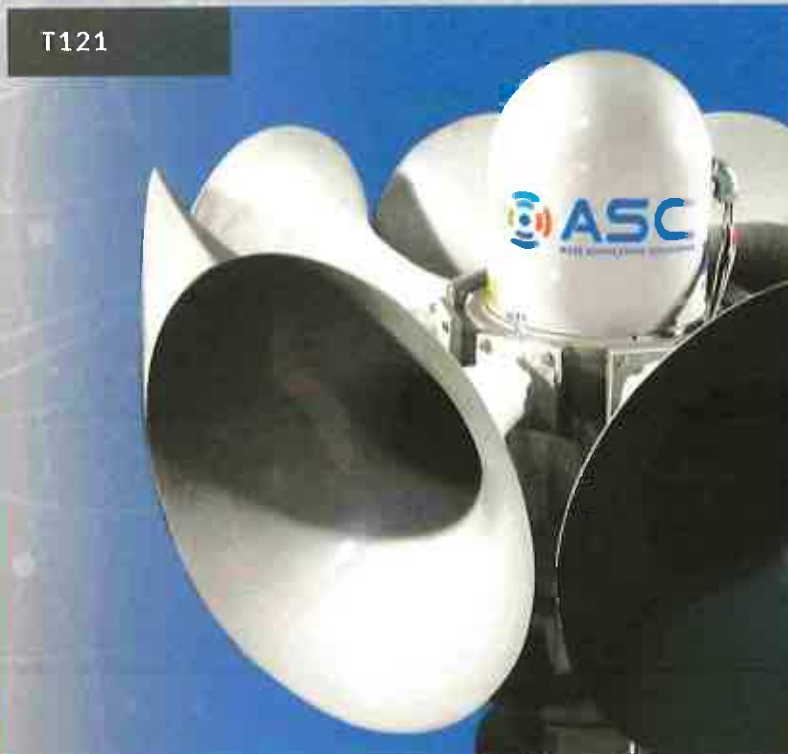
T112



T135



T128



T121

### AMERICAN MADE

ASC's Tempest™ line of mechanical sirens provide high availability during the most critical times. Tempest™ sirens are "Made in the U.S.A" at our factory in Milwaukee, WI where each unit is assembled and fully tested.

### LOWEST TOTAL COST-OWNERSHIP

Designed for the lowest total cost of ownership, Tempest™ sirens utilize 48VDC motors with factory-sealed bearings that increase reliability and improve efficiency. Composite materials are used to reduce or eliminate the damaging effects of a harsh operating environment. Stainless steel hardware is standard on all Tempest™ series sirens. Built to outperform and outlast the competition, Tempest™ sirens provide unparalleled reliability and durability.

### SYSTEM SPECIFICATIONS:

Depending on your application, Tempest™ sirens come in the following power configurations:

- AC only operation – Only alternating current is supplied to the control systems.
- DC only operation – Only direct current is supplied to the control systems.
- AC primary with DC backup operation – Alternating current is supplied and direct current is supplied when AC is unavailable.

For units with direct current supplies battery bank charging can be accomplished either by AC current, Solar current, or both. Ask about our GREEN Power configurations that provide solar primary charging and only revert to grid power if necessary.

### STANDARD 3 SIGNAL FORMAT

#### Alert

Steady Tone, 3 minutes

#### Attack

Wailing Tone, 6 sec. Hi / 6 sec. Low, 3 minutes

#### Fire

Wailing Tone, 16 sec. Hi / 8 sec. Low, 4 Cycles

*...the most reliable and coverage effective mechanical sirens on the market to date.*



### NEXGEN INTEGRATION

Tempest™ sirens can be connected to your personal computer and monitored from anywhere with the addition of one of our CompuLert™ graphic user interface options. Our expert team can custom create an Early Warning or Mass Notification System to suit your specific needs and maximize life saving potential. CompuLert™ NEXGen Features including:

- NOAA Activation
- IPAWS Compatible
- CAP Compliant
- Auto-Activation
- Coverage Area
- Dynamic Mapping
- Polygon device selection and activation

AC Power Voltage Input (DC Control)	120/240 V AC 50/60 HZ
AC Power Voltage Input (AC Control)	208/240 / 480 V AC 50/60 HZ
AC Power Voltage Input (AC/DC Control)	208/240 / 480 V AC 50/60 HZ
Operational Voltage	48 VDC

### ACOUSTICAL CHARACTERISTICS\*

	T-112 Omni	T-121 Omni	T-128 Rotational	T-135 Rotational
Effective Range @ 100ft	113 dB @100ft/30m	121 dB @100ft/30m	129.9 dB @100ft/30m	133.5 dB @100ft/30m

\*Acoustical Characteristics given for omni-directional configurations; will vary for other coverage options

### WEIGHT AND DIMENSIONS

	T-112	T-121	T-128	T-135
Siren Dimensions (uncrated)	39"(H) x 23"(W)	39"(H) x 50"(W)	57"(H) x 50"(W) x 51"(L)	61"(H) x 59"(W) x 53"(L)
Weight (uncrated)	176 lbs	176 lbs Siren / Horns packaged Separately	380 lbs	500 lbs

All information and specifications are subject to change without notice, and may contain typographical or other errors.



# Quotation

Quotation #: 93639

Reference:

Sentry Siren, Inc.

14161 State Highway 115

Penrose, CO 81240

T: 719-372-6012 F: 719-372-6621

[mail@sentrysiren.com](mailto:mail@sentrysiren.com)

DATE: September 13, 2023

CUSTOMER ID:

TO: Gary Dehlinger  
Port of Brookings  
Brookings, OR  
97415

Office: 5413730280

Email: [gary@portofbrookingsharbor](mailto:gary@portofbrookingsharbor)

Estimated Delivery Time	Shipment Method	PAYMENT TERMS	Valid Until
4-5 Weeks ARO	LTL	Net Due PTS	10/13/23

QUANTITY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1.00	3V8-H-1 - 5HP, 1PH Warning Siren 109dB(C)	\$ 5,862.24	\$ 5,862.24
	<b>230VAC, 1ph, 40 Amp Power Service Required</b>		
1.00	S4W - Motor Starter for 5HP, 1PH Warning Siren	940.50	940.50
1.00	Generation 3 AC Wireless Radio Siren Controller	2,875.00	2,875.00
1.00	Utility Pole Mounting Bracket - 8.5"	555.84	555.84
			-
			-
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			-
			-
			-
			-
			-
1.00	Shipping to 97415	959.17	959.17
			-
			-

Notes:

<b>SUBTOTAL</b>	\$ 11,192.75
<b>SALES TAX</b>	
<b>TOTAL</b>	<b>\$ 11,192.75</b>

Total Represents Complete and Delivered Cost unless Freight states PPA/Ex Works. Warning Siren(s) carry a 5 Year Warranty. External components such as siren motor starters, VFDs, et al. carry a 3 Year Warranty. Siren control equipment carries a 2 Year Warranty. Lifetime Tech Support also available. Installation is not included unless stated. Quotation valid for 30 days from date at the top of this form.

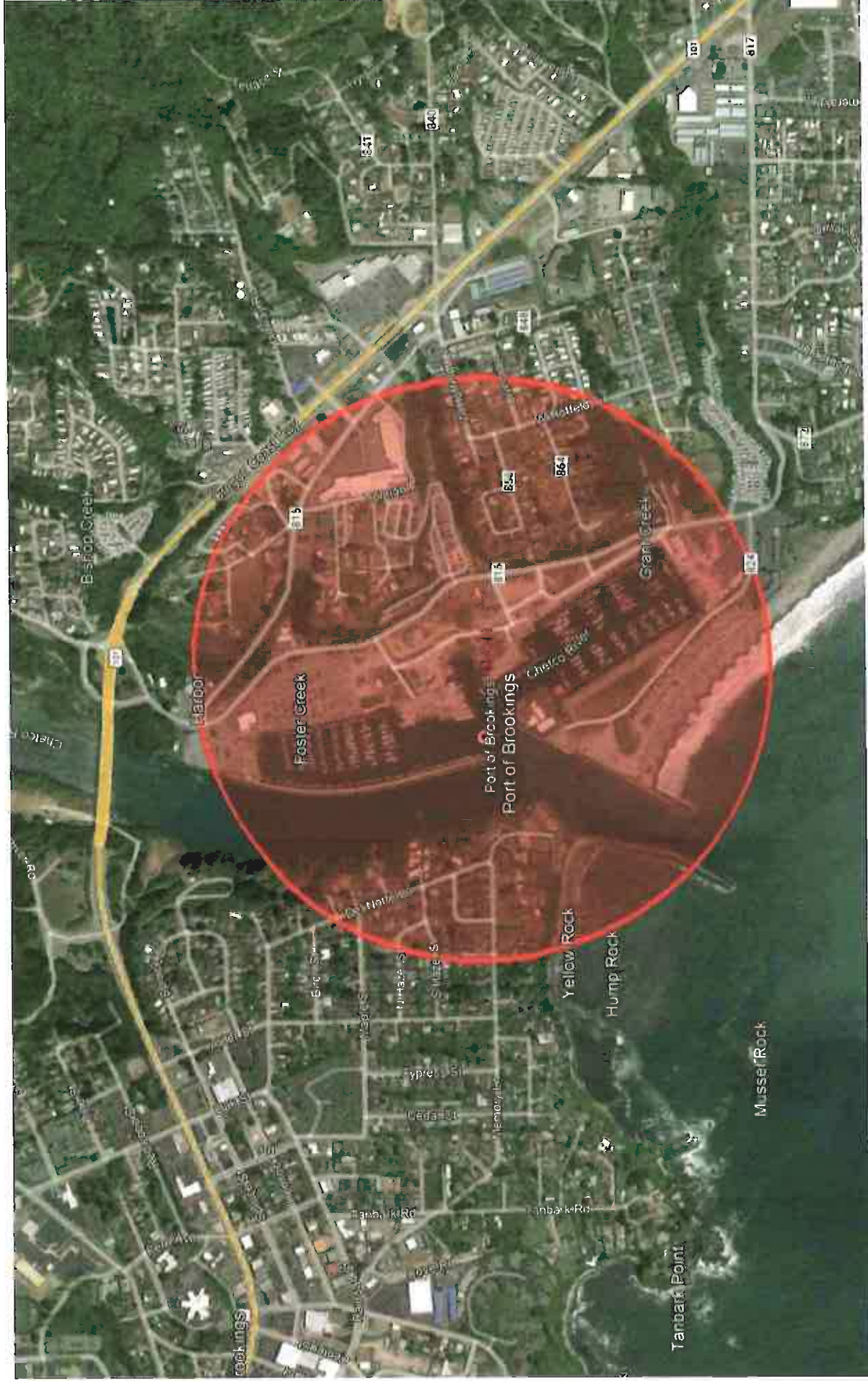
Quotation Prepared By: Evan Kerr

Signature :

*Evan Kerr*



# Sentry Siren Coverage Study for Port of Brookings



- Siren coverages are approximate and assume perfect conditions.
- Actual coverages may vary based on local terrain, conditions, foliage, structures and other unknown conditions.
- Sentry Siren makes no guarantee that coverage shown will mimic actual, real-world, coverage.
- Coverage area is based on computer generated data and FEMA Guidelines covering atmospheric attenuation.
- Data subject to license and use / reproduction is restricted.

# Oregon Department of Emergency Management

## Chapter 104

### Division 30

#### ADOPTION OF A UNIFORM TSUNAMI WARNING SIGNAL

##### [104-030-0000](#)

###### Purpose

(1) The rules in this division seek to establish a Uniform Tsunami Warning Siren Signal for the Oregon coast (Oregon Senate Bill 557, Section 2).

(2) The objective of the tsunami statutes and these implementing rules is to reduce the risk of loss of life. Risk will be reduced by applying a uniform siren signal to inform the public of an approaching tsunami on the Oregon coast.

(3) Establish a Uniform Tsunami Warning Siren Signal standard.

(4) Require tsunami warning sirens to adhere to this standard.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

##### [104-030-0010](#)

###### Applicability

(1) This rule applies to all Tsunami Warning sirens, including existing Tsunami Warning sirens.

(2) Existing Tsunami Warning sirens must comply within 5 years of the effective date of these rules.

(3) The siren signal is the "wail," a siren tone that oscillates up and down repeatedly from high to low over a period of three minutes.

(4) Voice broadcast may be included in addition to the wail, but not in replacement of the wail.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

##### [104-030-0020](#)

###### Definitions

(1) "Tsunami Warning Siren signal" is the wail, a siren tone that oscillates up and down repeatedly from high to low over a period of three minutes.

(2) "Tsunami Inundation zone" for the purpose of these rules means the area subject to tsunami inundation as depicted on maps adopted under OAR 632-005-0030 of these rules and intended for the implementation of ORS 455.446 and 455.447.

(3) A "Tsunami Warning Siren" is a siren or other audible warning device for the purpose of providing warning to the public within the Tsunami Inundation Zone of an approaching tsunami.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

##### [104-030-0030](#)

###### Guidance on Tone, Signal, and Placement

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A rotating siren using a solid tone that produces the same effect as a fixed siren using a "wail" when observed from a stationary location and meets the intent of these rules.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

#### 104-030-0040

##### Guidance on Testing

(1) The siren test time is designed to roughly coincide with the weekly National Oceanic and Atmospheric Administration (NOAA) Weather Radio tests. Tsunami Warning Sirens will be tested on Wednesdays at 11:00 hours (a.m.) for routine testing of tsunami warning systems. Testing will be done on the first Wednesday of each month at 11:00 am.

(2) The recommended siren test duration is not to exceed 60-seconds excluding voice message, except during system coverage evaluations, unless using a unique sound for the test, such as Cows or Chimes.

(3) A sign or placard shall be affixed to each siren stating the routine test time and day.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

#### 104-030-0050

##### Guidance on Other Methods of Warning

(1) Recommend use of other methods for tsunami warning in conjunction with sirens.

(2) Work with emergency responders to provide alternative means such as weather radios, loudspeakers on beach vehicles, door-to-door notification and welfare-checks.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

#### 104-030-0060

##### Guidance on Visual Methods of Warning

Consider a visual warning signal recommendation used in conjunction with fixed siren facilities; such as the blue strobe or flashing light, the most commonly used visual warning.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

#### 104-030-0070

##### Guidance on All Clear Signal

The All Clear signal shall NOT be a Siren sound, either Solid or Wailing.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

#### 104-030-0080

##### Guidance on Location of Tsunami Warning Systems

Locate sirens in areas where there are either large concentrations of population within the inundation zone; or where other means of warning people is not available and/or practical, such as at parks and beach access areas.

**Statutory/Other Authority:** ORS 401.863 - 401.864

**Statutes/Other Implemented:** ORS 401.863

**History:**

OEM 1-2010, f. & cert. ef. 1-21-10

v2.0.10

[System Requirements](#) [Privacy Policy](#) [Accessibility Policy](#) [Oregon Veterans](#) [Oregon.gov](#)

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# 2023 - 2024 SDIS SAFETY & SECURITY GRANT APPLICATION

WE ARE APPLYING FOR:

Cybersecurity Related Project     Safety and Security Project

Name of SDAO Member District: Port of Brookings Harbor

Complete Mailing Address: P.O. Box 848  
Brookings, OR 97415

Phone Number: 541-469-2218

Fax: 541-359-3999

Contact Person: Travis Webster

E-Mail: travis@portofbrookingsharbor.com

Brief description of cybersecurity related project or safety and security project: \_\_\_\_\_  
The Port of Brookings Harbor and the surrounding area does not have a workable tsunami siren  
to notify people living or staying on their vessels, staying at the RV Park, visiting the Port or beach,  
and local tenants or residents.

Total cost: \$51,176.80

Breakdown of cost(s)\*: ASC Mass Notification Solutions Quote # 230919JS \$51,176.80

Impact on staff, volunteers, and/or community safety: \_\_\_\_\_  
Tsunami siren will provide notification to everyone in the surrounding area without going door to door  
(boat to boat) putting a getter risk to staff in the tsunami zone.

**\*NOTES:**

- Routine maintenance to existing facilities and/or equipment and normal business expenses will not be considered.
- Labor costs for district employees are not eligible for in-kind matching.

**To be considered, your grant application must be completed in full and submitted to SDAO no later than noon on Wednesday, November 15, 2023.** Submit completed applications to SDAO, **PO Box 12613, Salem, Oregon 97309** or e-mail to [rcarroll@sdao.com](mailto:rcarroll@sdao.com). You can download a copy of the application on our website at <https://www.sdao.com/safety-security-grant-program>. Questions? Contact Rebecca Carroll at [rcarroll@sdao.com](mailto:rcarroll@sdao.com).