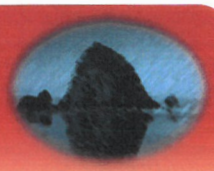
COWS Information

Cannon Beach
Rural Fire Protection District
188 Sunset Blvd · PO Box 24 · Cannon Beach OR 97110
(503) 436-2949 · Emergency: 9-1-1 · www.cbfire.com · info@CBFire.com



AGREEMENTS

Scanned 10/18/21 for Board Members.

CANNON BEACH RURAL FIRE PROTECTION DISTRICT

P.O. Box 24
Cannon Beach, OR 97110
(503) 436-2949
Fax: (503) 436-9639
cbrfpd@pacifier.com

December 9, 2002

Michael Meisner, Construction Foreman
Qwest
481 Industry
Astoria, OR 97103

Dear Mr. Meisner:

This letter is to serve two purposes. The first is to formally give the permission of Cannon Beach Rural Fire Protection District (the Fire District) to Qwest to suspend communication wires owned by Qwest from the utility pole owned by the Fire District and located at the Northwest corner of the intersection of First Street and North Larch Street in the city of Cannon Beach, Oregon. The utility pole owned by the Fire District will be installed at the above location on or shortly after December 12, 2002, for the purpose of mounting a siren/loudspeaker unit used for the purpose of community warning.

The second purpose of this letter is to disclaim any and all liability, and any and all responsibility that may arise from the use of the utility pole by Qwest. The Fire District allows Qwest to suspend its wires from the Fire District's pole without charge or rent and expects to bear absolutely no burden, financial or otherwise, from the use of the pole by Qwest. Additionally, if for unforeseen reasons, the Fire District opts to remove or relocate the utility pole in the future, Qwest will have to bear the burden of installing another pole or finding an alternative method for suspending Qwests wire utility lines.

Please contact me if you have any questions regarding this letter.

Sincerely,

Cleve Rooper

Cleve Rooper
Fire Chief
Cannon Beach RFPD
cc: Fire Dist. Board of Directors

Cleve -
FYI - I just ran across this which I did for something to do with Salem a while ago. It's more current than the $26K figure I gave you yesterday.
AA 3Jul02

SIMPLE SIREN

Mechanical depends on 220 VAC commercial power - requires approx 60 amps to start - approx same hardware cost as simple electronic siren of same output volume.

Electronic operates on 24 VDC storage batteries maintained by either 120 VAC commercial power or solar panels - 124 decibel output volume. Highly directional - affording ease of siting within community.

$9,275	the unit
2,000	radio/decoder/antenna
1,000	pole w/cabling
800	two 64 watt solar panels
360	two 12 VDC deep cycle batteries
$13,435	

VOICE-AUGMENTED SIREN

operates on 24 VDC storage batteries maintained by either 120 VAC commercial power or solar panels - 124 decibel output volume. Highly directional - affording ease of siting within community.

$14,250	the unit
2,000	radio/decoder/antenna
1,000	pole w/cabling
800	two 64 watt solar panels
720	four 6 12 VDC deep cycle batteries
$18,770	140% of simple electronic or mechanical siren

CANNON BEACH ELECTRIC CO., INC.
ELECTRICAL CONTRACTOR
P.O. BOX 152 CANNON BEACH, OREGON 97110
436-1362

Jason Caponette
T-Mobile

October 17, 2002

Re: Relocation of Spruce and Washington community warning system tower.

Estimate: $6200.00

Dear Jason,

We propose to furnish all labor, materials, and permits necessary to relocate the community warning system equipment at the above location to a new location at 1 st and Larch St. in Cannon Beach Oregon.

Estimate includes 24 hours of labor, $950.00 for materials, and $3600.00 for crane time, machine shop, work and miscellaneous hardware items. Above estimate does not include moving the pole itself.

A time and material agreement can also be done. Labor rates are $65.00/hr, General wiring materials have a 30% markup on material invoice cost, and sub-contractors are marked up 15% over cost. Freight charges are at cost.

Thank you for the opportunity to be of service to you. Should there be any questions please do not hesitate to call.

Sincerely,
Cannon Beach Electric

Garry D. Smith

Agenda Item

Board of Commissioners
Clatsop County

AGENDA ITEM SUMMARY

Nov. 7, 2012

Issue/Agenda Title: Transfer of ownership interest in two warning sirens with associated equipment to Cannon Beach Rural Fire Protection District

Category: Consent Calendar

Prepared By: Tom Manning, Emergency Services Coordinator

Presented By: Dean Perez, Emergency Management Director

Issue before the Commission: The Clatsop County Emergency Management Division requests approval from your Board to transfer ownership interest in Chemical Stockpile Emergency Preparedness Program (CSEPP) donated equipment of two warning sirens with mounting poles, associated hardware and equipment to the Cannon Beach Rural Fire Protection District (CBRFPD) to replace the old model warning sirens located in Arch Cape.

Informational Summary: Last year, Clatsop County received nineteen warning sirens with associated poles, hardware and other associated equipment from the CSEPP program. These sirens are current production warning sirens with voice announcement capability.

The CBRFPD has requested the Clatsop County transfer two sirens with poles and associated equipment from our current inventory to replace the old and obsolete warning sirens located in Arch Cape. The warning sirens, poles and equipment have an estimated value of $3,000 each. The CSEPP program donated the warning sirens to Clatsop County for the expressed purpose of enhancing our Tsunami Warning System along our coastline and replacing old or obsolete sirens in Arch Cape, Cannon Beach, Seaside, Gearhart, or Warrenton and requested.

If approved, Clatsop County Emergency Management Division will draft a Memorandum of Agreement (MOA) between the County and CBRFPD to initiate transfer of two Warning Sirens and associated equipment, poles and hardware. The CBRFPD will agree to pay all costs for the delivery, installation, operation and maintenance of the warning sirens.

Fiscal Impact: There is no fiscal impact to the County general fund. The CBRFPD has agreed to pay all costs for the delivery, installation, operation and maintenance of the warning sirens.

Options to Consider:

1. Agree to Transfer of Ownership Interest in Chemical Stockpile Emergency Preparedness Program (CSEPP) Donated Equipment of Two Warning Sirens with mounting poles, associated hardware and equipment to Cannon Beach Rural Fire Protection District.
2. The County could retain possession of the CSEPP donated property for future use.
3. The County could sell the CSEPP donated property to a local government or private entity.

Staff Recommendation: Option 1. Move to approve and authorize the County Manager to sign a memorandum of agreement authorizing transfer of ownership interest in CSEPP Equipment of two warning sirens, poles, associated equipment and mounting hardware to CBRFPD.

Attachment List: A. Draft Memorandum of Agreement.

HAND RECEIPT/ANNEX NUMBER *For use of this form, se DA PAM 710-2-1.* *The Proponent agency is ODCSLOG.*	FROM: Emergency Management LT	TO: Chief Hans Mulder Elsie Fire CERT Team	HAND RECEIPT NUMBER 0001

FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER	END ITEM DESCRIPTION	PUBLICATION NUMBER	PUBLICATION DATE	QUANTITY
	KG-UVD1P	Dual Band Portable Radio		September 26, 2012	2

STOCKNUMBER a.	ITEM DESCRIPTION b.	* c.	SEC d.	UI e.	QTY AUTH f.	g. QUANTITY A	B	C	D	E	F
Thomas E Nanney	THIS FORM PROVIDED BY CLATSOP COUNTY EMERG MGT										
	Whelen 6 Bay SIREN					1					
	Whelen 6 Bay SIREN					1					
	Mounting Poles					2					
	Set of Mounting Hardware					2					
	1 Radio Control Console					1					

* WHEN USED AS A:
HAND RECEIPT, enter Hand Receipt Annex number
HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes
HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC).

Garry D Smith
Garry D Smith

DA FORM 2062, JAN 82 EDITION OF JAN 58 IS OBSOLETE. PAGE 1 OF 1 PAGES

USAPPC V2.10

PLEASE MAKE PAYMENT TO ALMx-Security INC.

ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

INVOICE

INVOICE NO:01131112
DATE:

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GAR4RY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
RADIO	11/12/12	UPS	CHESTER, CT	30 DAYS

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
2	NARROW BAND C2030NV RADIO PT.# 01-1418319-03	$1730.00	$3,460.00
	EFT: ACCOUNT 4900277127 ABA ROUTING 323371076 **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**		
		Sub total	$3,460.00
		Shipping & Handling Charge	$50.72
		SALES TAX	$ n/a
		Amount Due	**$3510.72**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

Gary Smith

From: Dean Perez <DPerez@co.clatsop.or.us>
Sent: Thursday, November 15, 2012 10:51 AM
To: Garry Smith; Mike Balzer, Chief (mikeb@cbfire.com)
Cc: Sasha Raichl; Thomas Manning
Subject: Memorandum of Agreement Warning Sirens
Attachments: Memorandum of Agreement - Warning Sirens.doc; AGENDA SUMMARY - Siren Transfer to CBRFPD.doc; _Certification_.htm

Chief Balzer and Garry,

Our Board has approved the transfer of two warning sirens to Cannon Beach Rural Fire Protection District. I have attached the Agenda Summary and Memorandum of Agreement for Chief Balzer to sign and your records. Let me know when you and Sasha have set a date/time for the sirens to be delivered to Arch Cape and I will coordinate with Chief Balzer to execute the MOA.

Best,

Dean Perez
Clatsop County
Human Resources & Emergency Management Director
800 Exchange Street, Suite 400
Astoria, Oregon 97103
503-338-3624

This message has been prepared on resources owned by Clatsop County, Oregon. It is subject to the Internet and Online Services Use Policy and Procedures of Clatsop County.

Mike for AL or you to Sign

739
2123

#:_____

MEMORANDUM OF AGREEMENT

Between

Clatsop County Emergency Management Division

And

Cannon Beach rural Fire Protection District

The purpose of this Memorandum of Agreement between Clatsop County Emergency Management Division (County) and Cannon Beach Rural Fire Protection District (Fire District) is to set forth the terms of agreement for two (2) Whelen Warning Sirens, with poles, associated hardware and equipment that will be transferred and ownership of these sirens is contingent upon the following requirements:

The Fire District will:

1. Retain the Sirens as part of the district property inventory and not dispose of or transfer to another agency without prior approval by the County, and
2. Complete installation and testing these sirens within 1 year of transfer from the County to the District.
3. Maintain these sirens and test on a regular basis.

All costs associated with installation, operation, testing, maintenance and liability is assumed by the Fire District. Clatsop County makes no warranties, express or implied, about the items being transferred. The transferred property is accepted in "AS IS" condition.

Signed on ~~November~~ December____, 2012 by:

_____ _____

Cannon Beach Rural Protection Fire District Clatsop County Manager

MEMORANDUM OF AGREEMENT

between

Clatsop County Emergency Management Division

and

Cannon Beach Rural Fire Protection District

This Memorandum of Agreement between Clatsop County Emergency Management Division (County) and Cannon Beach Rural Fire Protection District (District) sets forth the terms of agreement for three Whelen Warning Sirens (see Attachment A), poles and associated hardware and equipment that will be transferred to the Fire District.

Recitals: Citizens and visitors along the coast are among the most vulnerable to hazardous weather conditions, to include earthquake and tsunami and warning sirens are intended to alert people who are outdoors to evacuate or seek shelter in an emergency. The Emergency Management Division received the sirens and poles from the Oregon Military Department to use for tsunami warning in Clatsop County and this transfer of surplus property to the District is pursuant to Clatsop County Code Section 1.04.060E.

Now therefore, the parties agree:

A. The Fire District will: 1) Retain the sirens as part of the district property inventory and not dispose of or transfer them to another agency without prior approval from the County; 2) Install and test the sirens within two years of transfer from the County to the District and 3) Maintain and regularly test the sirens.

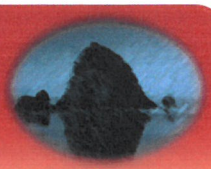
B. All costs associated with installation, operation, testing, maintenance and liability is assumed by the District.

C. The County makes no warranties, express or implied, about the items being transferred. The transferred property is accepted in "AS IS" condition.

Cannon Beach Rural Protection Fire District — Date 12/4/17

Clatsop County Board of Commissioners — Date

Cannon Beach
Rural Fire Protection District
188 Sunset Blvd · PO Box 24 · Cannon Beach OR 97110
(503) 436-2949 · Emergency: 9-1-1 · www.cbfire.com · info@CBFire.com



COSTS

Board of Directors
CANNON BEACH FIRE DISTRICT
POB 24
Cannon Beach, Oregon 97110

Voice: 503-436-2949
FAX: 503-436-9639
E-Mail: cbrfpd@cbfire.com

22 July 2005

MEMO FOR RECORD:

RE: Whelen Engineering Discontinuance of Shop Repair for Certain Electronic Components of the Community Warning System's Alarm Stations

Our alarm station electronics used since about late 1986 are of Whelen's technology now obsolete to the point factory repairs are becoming impossible. We need to plan for updating those electronics. Whelen provides 100% upgrade kits which bring such electronic overhauls up to their present technology.

We need an overhaul plan in our budgeting process to avoid crippling breakdowns from not having spare parts. Here are estimated current prices (excluding shiping) for such replacement equipment:

WPS 2000-16:	Front Panel Up-Grade FPU2016 (w/o charger)	$3,588 each
WPS 2740:	Front Panel Up-Grade FPU2804 (w/o charger)	2,997
WPS 2750:	Front Panel Up-Grade FPU2805 (w/o charger)	3,538
WPS 3000:	Front Panel Up-Grade FPU3000 (w/o charger)	3,600 each
Silent Test Status LED Display (driver)[1]		286 each
Radio for wireless control D2020H, DTMF-VHF,CTSS		935 each

Note: If we need a Type 3 cabinet[2] to convert to four 6VDC heavy duty battery power, MacLachlan says when the time comes, he'll have his warehouse checked for possibility there's a used one on hand (like those he had from the Guam order). If not, such a cabinet from the factory goes for $5,000+.

Note: Whelen's charger designed for the new technology costs $884. Whether we really need that we'll have to determine at the time whether we'd have apples/oranges by using the old charger.

[1] Whelen discontinued Silent Test Status LED Display in its standard new equipment. For our existing displays to function with updated interior electronics, this item must be built into the updated elements.
[2] U.S.101/Hemlock WPS2000-16

PO Box 24
188 Sunset Blvd.
Cannon Beach, OR 97110
Phone: 503-436-2949
Fax: 503-436-9839

Cannon Beach RFPD

Fax

To: Alan MacLachlan, SES USA **From:** Cleve Rooper

Fax: 425-486-1626 **Date:** March 15, 2006

Phone: ??? **Pages:** 2 including cover

Re: Purchase Order 1590 **CC:**

☐ Urgent X For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

•Comments

Alan, I'm transmitting a purchase order for Whelen siren equipment. After checking my records, I note I have outdated phone contact info for you. At your convenience, could you forward current contact information? . Also, could you please give us some indication of the expected delivery time for this equipment? Let me know if you have any questions.

Thanks

Shipment is 8 wks - Thanks for order.

Cleve

Cleve.

Tel: (425) 485-3801
FAX (425) 486-1626
Cell (206) 730-1316
e-mail: Alan@sesusa.us

CANNON BEACH RFPD

Community Warning System Maintenance

2005

- ◊ SES Quotation for replacement components

o Model 2016	$3588 each
o Model 2740	2997
o Model 2750	3538
o Model 3000	3800

- o Additional Extras

▪ LED conversion kit	$286 each
▪ Radio Receiver	935
▪ Battery Charger	884

Assuming all the extras are selected, the costs are:

◊ Model 2016	5693
◊ Model 2740	5102
◊ Model 2750	5643
◊ Model 3000	5905

Potential additional costs are:

- ◊ Crane rental
- ◊ Labor
- ◊ Speaker components
- ◊ Wiring
- ◊ Batteries
- ◊ Cabinets
- ◊ ~~Pole replacements?~~
- ◊
- ◊
- ◊
- ◊
- ◊
- ◊

ruct 4004 (COWS Alarm Unit #7)

	Item Description	Units	Price per Unit	Total	Remarks
1	Complete WPS4004 electronics system in Type III (i.e. 4-battery type) cabinet complete with 1-way radio, antenna, rotor mount control, line charger, and LED Status Display (factory assembled)	1	9,440.00	9,440.00	
2	4004 cable/harness including conductor pair for driving motorized speaker housing rotor	1	280.00	280.00	Motorized speaker housing rotor from Trojan nuclear plant surplus (two should be in storage, one having broken housing)
3	Core-10 Steel standard pole cap - ungalvanized	1	0.00	0.00	For storage and eventual use in another project after hot-dip galvanizing.
4	Motorized speaker housing rotor from Trojan nuclear plant surplus	1	0.00	0.00	Two should be in storage, one having broken housing
5	Speaker-Driver (WPS4004)	4	695.00	2,780.00	The WPS2700-3 Speaker Head in storage needs conscientous testing of all three speaker drivers. Any that can be re-used should be. Replacement of wonky drivers in the WPS4004 is extremely simple and doesn't at all justify tossing a rehab driver for a new one on basis of cost of replacement.
6				0.00	
7				0.00	
	TOTAL w/o Freight			12,500.00	Freight additional

Cleve -
The foregoing has been checked-out with Alan MacLachlan this morning (a copy having been FAX'd to & from to do so).

1:07PM Tuesday 14 Mar 06

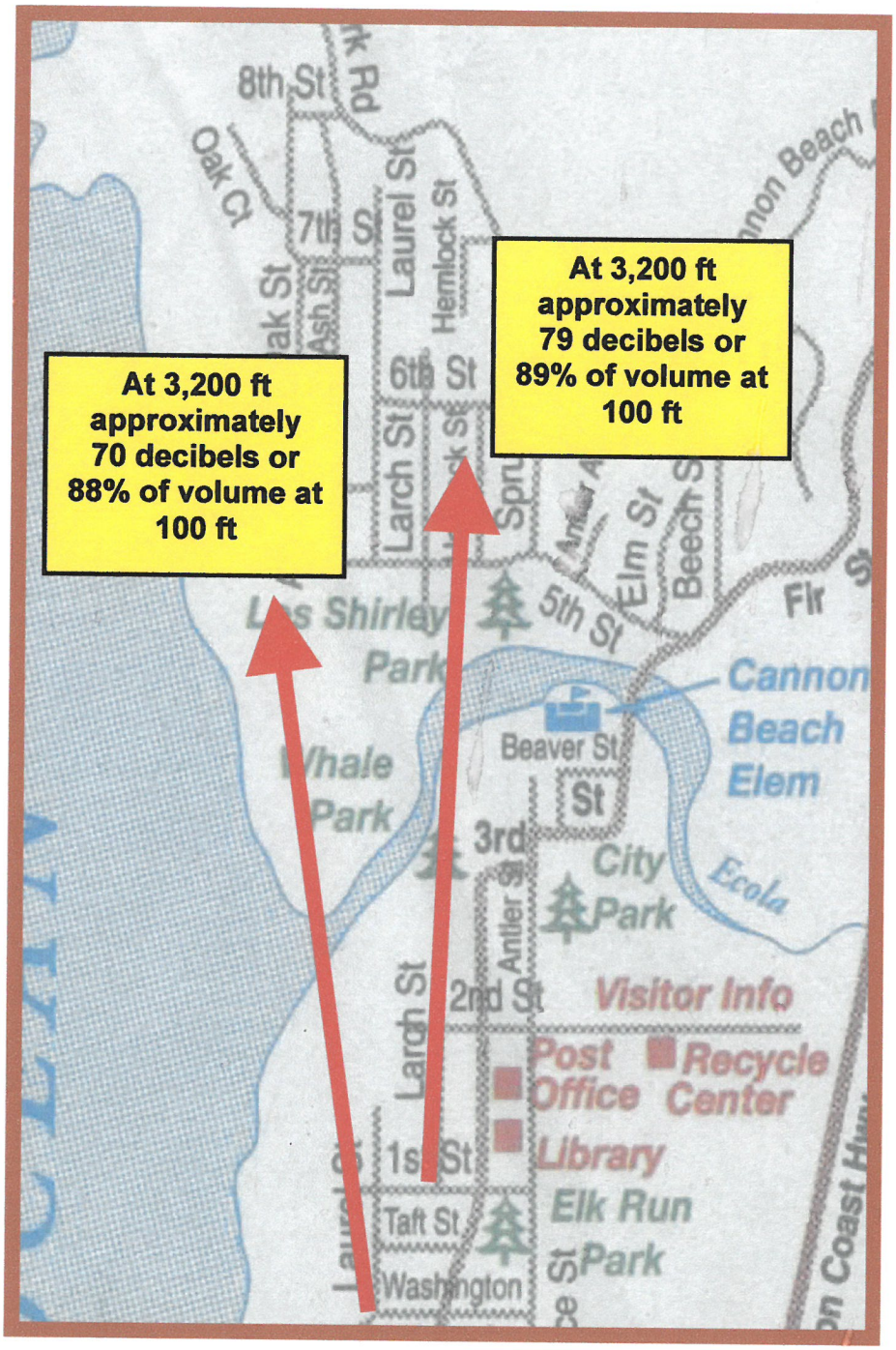
PLANNED IMPROVED COVERAGE

The only Community Warning System coverage for Main Downtown and North of Ecola Creek has been by the COWS alarm unit at 1st and Larch Streets.

Residences North of Ecola Creek, particularly as far as the 6th Street neighborhood, all well within the tsunami inundation zone, have not reliably been able, indoors, to hear the COWS alarm.

The COWS alarm unit at 1st will be replaced by a more powerful unit covering the Main Down-town and North of Ecola Creek. Residences in the 6th Street neighborhood will be better able to hear an alarm indoors with this improved coverage.

The COWS alarm unit being replaced at 1st and Larch will be relocated to Washington and Ocean to aim straight at Chapman Beach frontage – giving that area its first direct alarm coverage.



Safety Emergency Systems
6527 NE 192nd Place
Kenmore, WA 98028- 3457
425.485.3801 Fax 425.486.1626

QUOTATION

The following number must appear on all related correspondence regarding quotation:
NUMBER: 01190705R

Revised Quote

SEND TO:
Cannon Beach FD
P.O. Box 121
Cannon Beach, OR 97110

To: Al Aya

QUOTE DATE		SHIP VIA	F.O.B. POINT	TERMS
7/19/2005		Truck	Chester, CT	Net 30 days

QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
2	Ea.	WPS2016 Front panel up-grade FPU2016 without/charger	$3,588.00	$
1	Ea.	WPS2740 Front Panel up-grade FPU2804 without/charger	$2,997.00	
1	Ea.	WPS2750 Front Panel up-grade FFU2805 without/charger	$3,538.00	
1	Ea.	WPS3000 Front Panel up-grade FF3000 without/charger	$3,800.00	
1	Ea.	Cabinet only for WPS2730 CAB2803 without/charger	$5,264.00	
1	Ea.	Cabinet only for WPS3000 CAB3000 without/charger	$6,650.00	
6	Ea.	Silent Test Status window LED	$286.00	
6	Ea.	Radio for wireless control D2020H, DTMF-VHF, CTSS	$935.00	
		Estimated shipping cost	$738.00	

Note recommend charger to be compatible with system add $884.00 to each siren SUBTOTAL	$
SALES TAX	
ESTIMATED SHIPPING & HANDLING	
OTHER	
TOTAL	

1. Please enter quotation number on your purchase order.
2. Enter in accordance with the prices, terms, delivery method, and specifications listed above or advise modification prior to entry.
3. Please notify us immediately of any changes otherwise specified.
4. Send all correspondence to:
   Alan L. MacLachlan
   S.E.S. USA INC.
   6527 NE 192nd Place, Kenmore, WA 98028- 3457

Safety Emergency Systems
6527 NE 192nd Place
Kenmore, WA 98028- 3457
425.485.3801 Fax 425.486.1626

QUOTATION

The following number must appear on all related correspondence regarding quotation:
NUMBER: 01190705

SEND TO:
Cannon Beach FD
P.O. Box 121
Cannon Beach, OR 97110

To: Al Aya

ORIGINAL QUOTE

QUOTE DATE		SHIP VIA	F.O.B. POINT	TERMS
7/19/2005		Truck	Chester, CT	Net 30 days

QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
2	Ea.	WPS2016 Front panel up-grade FPU2016 without/charger	$3,588.00	$
1	Ea.	WPS2740 Front Panel up-grade FPU2804 without/charger	$2,997.00	
1	Ea.	WPS2750 Front Panel up-grade FFU2805 without/charger	$3,538.00	
1	Ea.	Cabinet only for WPS2730 CAB2803 without/charger	$5,264.00	
1	Ea.	Cabinet only for WPS3000 CAB3000 without/charger	$6,650.00	
6	Ea.	Silent Test Status window LED	$286.00	
6	Ea.	Radio for wireless control D2020H, DTMF-VHF, CTSS	$935.00	
		Estimated shipping cost	$738.00	
		Note recommend charger to be compatible with system add $884.00 to each siren SUBTOTAL		$
			SALES TAX	
			ESTIMATED SHIPPING & HANDLING	
			OTHER	
			TOTAL	

Drain have 3000

1. Please enter quotation number on your purchase order.
2. Enter in accordance with the prices, terms, delivery method, and specifications listed above or advise modification prior to entry.
3. Please notify us immediately of any changes otherwise specified.
4. Send all correspondence to:
   Alan L. MacLachlan
   S.E.S. USA INC.
   6527 NE 192nd Place, Kenmore, WA 98028- 3457
   425 485.3801. ; Fax 425.486.1626 WEB: www.sesusa.us

CANNON BEACH RURAL FIRE PROTECTION DISTRICT
P.O. Box 24
Cannon Beach, OR 97110
(503) 436-2949
Fax: (503) 436-9639

PURCHASE ORDER

001905

THIS NUMBER MUST APPEAR ON ALL CORRESPONDENCE, INVOICES, SHIPPING PAPERS AND PACKAGES.

TO	SHIP TO
ALMx-Security, Inc. 6527 NE 192nd Place Kenmore, WA 98028-3457 425-485-3801	Cannon Beach RFPD 188 Sunset Blvd. Cannon Beach, OR 97110

DATE ORDERED	DATE WANTED	SHIP VIA	TERMS	F.O.B.
7-26-10	10 WKS.	DROP SHIP	NET 30	

PLEASE ENTER OUR ORDER FOR THE FOLLOWING — TO BE SHIPPED AS DIRECTED:

QTY. ORDERED	QTY. RECEIVED	DESCRIPTION	UNIT PRICE	AMOUNT
	1	Whelen FPU2804 400W Amp Wiring, Front Panel Upgrade		3588 —
	1	Whelen 01-1483887-01 WPS 10A Battery Charger w/ harness		730 —
	1	D2020H, 1-WAY 10 DIGIT DTMF VHF-HS W/CTTSS TX & RX 150.775 Mhz; PL 141.3		1455 —
	4	WS-400H speaker assy W.O. Brackets or mounting hardware	2190 —	8760 —
	1	Si-Test Window Status Indicator, LED		325 —
		S & H		800 —
		per quote # TIN 20-544-0932		15,658 —

CONDITIONS
GOODS ARE SUBJECT TO OUR INSPECTION AND APPROVAL. IF SHIPMENT WILL BE DELAYED FOR ANY REASON, ADVISE US IMMEDIATELY, STATING ALL THE NECESSARY FACTS. TO AVOID ERRORS, NOTE SPECIFICATIONS CAREFULLY AND IF UNABLE TO COMPLETE ORDERS AS WRITTEN NOTIFY US PROMPTLY.

BY C Rooper
PURCHASING AGENT

POCC-707-3
PRINTED IN U.S.A.

Budget Committee
City of cannon Beach
Cannon Beach Or 97110

May 19, 2010

Re: Community Warning system
Upgrade Funding request For Orford St.

Dear Committee members,

Over the past 5 years the Cannon Beach Fire District has budgeted for and successfully updated 4 of the 5 community warning units that serve the Cannon Beach city limits. All of these units had reached their expected life span and repair of them has been increasingly difficult. The last unit still in need of upgrading is the unit located at Orford Street and the beach. This is one of our biggest units and also protects a large area of residential, motel and beach property. The fire district does not and will not have enough funding to replace this unit until 2012. This is the reason we are asking for help from the city. The costs involved are as follows:

New unit	$14,000.00
Labor	$ 4,220.00
Crane	$ 1,600.00
material	$ 1,650.00
Total	**$ 21,470.00**

This is a one time capital expenditure request.

The 2nd part of our request of the city, would be to share in **one third** of the annual maintenance expense involved, in taking care of the 5 units that cover the City of Cannon Beach.

This would be an annual commitment of $1,500.00 .

These maintenance costs break down as follows:

Labor	**$1360.00**
Misc. materials and supplies	**$140.00**
Total	**$1500.00**

Thank you for your consideration of this request. If there are any questions please do not hesitate to ask.

Sincerely,
Garry D Smith

Captain CBRFPD

ACM
800 - 535 - 0232

Albany Communications
91 Colvin Avenue - Albany,NY 12206 -
Phone: 800.535.0232 - Fax: 518.482.0613 - Email: wkredick@albanycommunications.com

ACM
800 - 535 - 0232

QUOTE

MOTOROLA Authorized Two-Way Radio Dealer
iridium
WHELEN Authorized Master Distributor and Installations
HYT AMERICA, INC.
Vertex Standard

Date	Quote #
03/31/08	AAAQ2083

Sold To: Cannon Beach Rural Fire Protection
Cleve Rooper
188 Sunset Blvd
PO Box 24
Cannon Beach, OR 97110

Phone: 503-436-2949
Fax: 503-436-9639

Ship To: Cannon Beach Rural Fire Protection
Cleve Rooper
188 Sunset Blvd
PO Box 24
Cannon Beach, OR 97110

Phone: 503-436-2949
Fax: 503-436-9639

Terms	Rep	P.O. Number	Ship Via
	WKRedick		

Ln #	Qty	Description	Unit Price	Ext. Price
1	5	Veetronix Alert Receiver-2 watt alert receiver.Frequency range of 29mhz -512mhz. 1 year limited warranty	$299.00	$1,495.00
2	0	Option-Remote Switching Output for Veetronix Alter Receiver.	$35.00	$0.00

SubTotal	$1,495.00
Sales Tax	$0.00
Shipping	$45.00
Total	**$1,540.00**

This quote is valid for 30 days from date of quotation

Whelen Engineering
Warranty repair

July 18, 2011

Attn: Chris Schaffer

Chris,

Enclosed is the radio and radio interface board from our latest 2900 front panel upgrade at Orford Street in Cannon Beach. As per our phone discussion this radio is dead. It has no response. We have replaced this unit with a loaner unit from Bill Flynn at ALMX security. We replaced the radio and interface board. This unit works properly when we entered the correct address code. It actually worked much better than the one you repaired last time. **Being as this is the second time back for repair the district would like to be sure this radio and control board is replaced with a new unit not a repaired unit returned from another project.** Because this unit protects a large populated area they do not want to send the entire unit back for any soft ware upgrades as it is working properly at this time. Bill indicated these software upgrades are on a chip that can be replaced in the field, and they are a no charge item. If this is the case we should probably have an upgrade for all the new front panel upgrades we have installed over the last 5 years.

If you have any questions please contact me @ 503-436-1362 office or 503-739-2123 cell phone 8:00am-5:00pm PDT.

Thank you for attention to this problem

Sincerely,
Garry D Smith

WHELEN®
ENGINEERING COMPANY, INC.
51 Winthrop Road, Chester, CT 06412-0684
Phone: 860-526-9504 Fax: 860-526-4078

PACKING LIST

ORDER NUMBER	ORDER DATE	REQUIRED SHIP DATE
R421520 SSG	02/09/11	02/09/11
ACCOUNT INFO		PACKAGES
XXXXXX 600	D	
NOTE/REFERENCE		

P.O.

SOLD TO
CANNON BEACH RURAL FIRE
PROTECTION DISTRICT
PO BOX 24
CANNON BEACH OR 97110

P.O.

SHIP TO
CANNON BEACH FIRE DISTRICT
188 SUNSET BOULEVARD
CANNON BEACH OR 97110

SHIP VIA	TRANSPORT TERMS	PAYMENT TERMS
UPS GROUND	PREPAY DO NOT ADD	PREPAID ORDER

ORDER	SHIP	B/O	ITEM DESCRIPTION
1	1		RADIO TICKET# 405856 1 of 4 RADIO FOR EMERGENCY WARNING MANUFACTURE DATE : 09/2010 S/N : 26627 COVERED UNDER WARRANTY REPAIRED UNIT UNABLE TO BE READ BY PROGRAMMING SOFTWARE AND WOULD NOT PASS RECEIVE AUDIO. REPAIRED BY RITRON. RADIO PROGRAMMED FOR RX 150.775 CTCSS 141.3.
1	1		01-0269252-01 (O) TICKET# 405857 2 of 4 ASSY, RADIO INTERFACE KEY MANUFACTURE DATE : 09/2010 COVERED UNDER WARRANTY CHECKED OK ON TEST & RETURNED
1	1		02-0169698-00 (K) TICKET# 405858 3 of 4 ASS'Y, RADIO INTERFACE MANUFACTURE DATE : 09/2010 P/S : 5090824 COVERED UNDER WARRANTY CHECKED OK ON TEST & RETURNED
1	1		02-0185996-00 (D) TICKET# 405859 4 of 4 ASS'Y, PCB LOGIC CONTROL MANUFACTURE DATE : 09/2010 P/S : 5109148

CONTINUED

WHELEN®
ENGINEERING COMPANY, INC.
51 Winthrop Road, Chester, CT 06412-0684
Phone: 860-526-9504 Fax: 860-526-4078

PACKING LIST

ORDER NUMBER	ORDER DATE	REQUIRED SHIP DATE
R421520 SSG	02/09/11	02/09/11
ACCOUNT INFO		PACKAGES
XXXXXX 600		
NOTE/REFERENCE		

P.O.

SOLD TO
CANNON BEACH RURAL FIRE
PROTECTION DISTRICT
PO BOX 24
CANNON BEACH OR 97110

P.O.

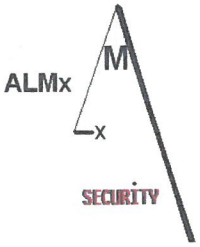
SHIP TO
CANNON BEACH FIRE DISTRICT
188 SUNSET BOULEVARD
CANNON BEACH OR 97110

SHIP VIA	TRANSPORT TERMS	PAYMENT TERMS
UPS GROUND	**PREPAY DO NOT ADD**	**PREPAID ORDER**

ORDER	SHIP	B/O	ITEM DESCRIPTION
			COVERED UNDER WARRANTY CHECKED OK ON TEST & RETURNED NO PROBLEM FOUND. UNIT PROGRAMED AS WPS2904, AREA CODE 679, ADDRESS 1001, D836 8 DIGIT FORMAT. NO CHARGE IN HOUSE NOTE: E0 TO E4

02/09/2011 13:42

PLEASE MAKE PAYMENT TO Alms-Security INC.



ALMx-Security Inc.
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail ALAN@SESUSA.US

INVOICE

INVOICE NO: 1250810
DATE: Aug 25, 2010

To:

Cannon Beach Rural Fire
Protection District
P.O. Box 24
Cannon Beach, OR 97110

Ship To:

Cannon Beach RFPD
188 Sunset Blvd.
Cannon Beach, OR 97110

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
001905	8/23/10	Truck	factory	NET 30 days

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
4	Whelen Model WS-400 H speaker with out brackets	$2,190.00	$8,760.00
	Partial shipment only		
		SUBTOTAL	$8,760.00
		SALES TAX	N/A
		SHIPPING & HANDLING	$to be inv w/final
		TOTAL DUE	$8,760.00

Make all checks payable to: Alms-Security Inc. 6527NE 192nd PL, Kenmore, WA 98029
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

Landscaping Equipment.

W3

Bob McEwan Construction Inc.

P.O. Box 2845
Gearhart, OR 97138
OR. CC #48302

Invoice

Date	Invoice #
5/27/2015	24730

Bill To
Cannon Beach Fire District P.O. Box 24 Cannon Beach, OR 97110

P.O. No.	Terms	Project

Description	Qty	Rate	Serviced	Amount
290 Excav. move pole from Arch Cape to Cannon Beach :Mi	3.5	110.00	5/12/2015	385.00
Labor move flagpole to CB :Ron	3.5	60.00	5/12/2015	210.00
FX 60 vactor for new pole at CB Fire Station :Cn	5	135.00	5/15/2015	675.00
#25 trk move vactor to CB Fire Sta. :Ef	2	90.00	5/15/2015	180.00
Labor vactor pole at CB Fire Sta. :Ef	5	60.00	5/15/2015	300.00
200 Hitachi install pole on Easet Side of CB Station :Mi	2	180.00	5/19/2015	360.00
#25 trk move 200 for setting pole at CB Fire Sta. :Ef	1.5	180.00	5/19/2015	270.00
Labor help set pole at the CB Fire Sta. :Ef	5	60.00	5/19/2015	300.00
Labor set pole at CB Fire Sta. :Ron	5	60.00	5/19/2015	300.00

All invoices net price. No discounts. Payment in full due upon receipt of this invoice.

Total $2,980.00

PLEASE MAKE PAYMENT TO ALMx-Security INC.

ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

Cows
Capital ~~Projects~~ Equipment.

INVOICE

INVOICE NO:052115
DATE:5/21/2015

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GARRY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
2266 Added	5/21/2015	UPS	CHESTER, CT	net

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
01	ESC2030 Logic control board	$975.00	$975.00
	EFT: ACCOUNT 4900277127 ABA ROUTING 323371076 **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**		
		Sub total	$975.00
		Shipping & Handling Charge	$35.00
		SALES TAX	$ n/a
		Amount Due	**$1,010.00**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

PLEASE MAKE PAYMENT TO ALMx-Security INC.

ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

cows
capital Equipment

INVOICE

INVOICE NO:041315
DATE:5/12/2015

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GARRY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
2265	4/28/2015	UPS	CHESTER, CT	net

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
01	C2020VNB Narrowband 2 way radio control	$1,730.00	$1,730.00
01	RDVM1G- Voice message for upgrade siren	$1,821.00	$1,821.00
	EFT: ACCOUNT 4900277127 ABA ROUTING 323371076 **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**		
		Sub total	$3,551.00
		Shipping & Handling Charge	$100.00
		SALES TAX	$ n/a
		Amount Due	**$3,651.00**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

ALMx SECURITY, Inc.
6527 N.E. 192nd Place
Kenmore, WA 98028-3457
USA

425-485-3801

Bellingham Office - Bill Flynn

360-592-1352

PRICE QUOTATION

HERE IS OUR QUOTATION ON THE GOODS NAMED, SUBJECT TO THE CONDITIONS NOTED BELOW.

DATE	PLEASE INDICATE THIS NUMBER WHEN ORDERING
4/17/2015	**01170415**
YOUR INQUIRY DATED	TERMS
PROPOSED SHIP DATE	TO BE SHIPPED VIA
Written By: **Bill Flynn**	F.O.B. Chester, CT

RE: New Siren Installation 2015
TO: CBFD Mike Balzer -by GARRY SMITH CBECO
FOR CANNON BEACH FIRE DISTRICT
503-436-2949

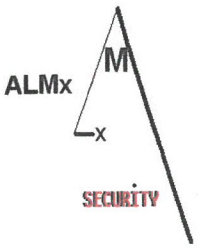
CONDITIONS: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office. All quotations and agreements are contingent upon strikes, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before acceptance of order. Typographical and stenographic errors are subject to correction. If this quotation is not based on your written request for quotation, then all ALMx Security standard conditions apply. If your purchase order is received as a result of the quotation and contains conditions and terms not previously known to ALMx Security, we reserve the right to requote based on these conditions. Conditions not specifically stated herein shall be governed by established trade customs. Upon receipt of your order and acceptance of the order by ALMx Security, the equipment herein will be supplied at the quoted prices below. Your order may not be accepted and the delivery schedule may not be established until radio information (if applicable) and all other pertinent information is supplied.

ITEM	QTY.	DESCRIPTION	PRICE		
		Material required for new siren installation			
1	1	C2020VNB Narrowband 2-way radio control	$1,730.00	$1,730.00	
2	1	RDVM1G - Voice message boards for upgraded sirens	$1,821.00	$1,821.00	
		Material		**$3,551.00**	
		Ship and handling Estimate		**$100.00**	
		TOTAL -		**$3,651.00**	

Signed by:____signed:::::_____

W.K. Bill Flynn, Project Manager
360-592-1352

PLEASE MAKE PAYMENT TO ALMx-Security INC.



ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

INVOICE

INVOICE NO:01061814
DATE:6/18/2014

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GARRY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
RADIO	6/14/2014	UPS	CHESTER, CT	30 DAYS

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Radio NARROW BAND C2030NV RADIO PT.# 01-1418319-03 Radio that was used by Cannon Beach during conversion **EFT: ACCOUNT 4900277127 ABA ROUTING 323371076** **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**	$1,920.00	$1,920.00
		Sub total	$1,920.00
		Shipping & Handling Charge	$24.88
		SALES TAX	$ n/a
		Amount Due	**$1,944.88**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

PLEASE MAKE PAYMENT TO ALMx-Security INC.

ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

INVOICE

INVOICE NO:01061814
DATE:6/18/2014

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GARRY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

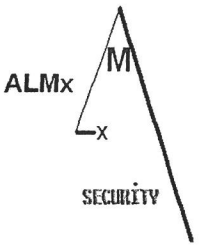
P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
RADIO	6/14/2014	UPS	CHESTER, CT	30 DAYS

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	Radio NARROW BAND C2030NV RADIO PT.# 01-1418319-03 Radio that was used by Cannon Beach during conversion **EFT: ACCOUNT 4900277127 ABA ROUTING 323371076** **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**	$1,920.00	$1,920.00
	Sub total		$1,920.00
	Shipping & Handling Charge		$24.88
	SALES TAX		$ n/a
	Amount Due		**$1,944.88**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

PLEASE MAKE PAYMENT TO ALMx-Security INC.



ALMx-Security
6527 NE 192nd PL
Kenmore, WA 98028-3457
425.485.3801 Fax 425.486.1626
e-mail : MaclachL4@AOL.com

INVOICE

INVOICE NO:091313
DATE:09/13/13

To:
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

Ship To: GAR4RY SMITH
CANNON BEACH RFPD
PO BOX 24
188 SUNSET BLVD
CANNON BEACH OR 97110

TIN # 20-544-0932 DUN #79-322-1453 UBI# 602 645 072

P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
2112	08/01/13	UPS	CHESTER, CT	net

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
01	Partial order Material only Digital Voice messages to be installed as Per quotation 010130613 dated 6,3/2013 **EFT: ACCOUNT 4900277127 ABA ROUTING 323371076** **Banner BANK, Bothell, WASHINGTON BRANCH,** **10125 Main St., Bothell, WA 98011** **FEDERAL TIN# 20-544-0932**	$11,625.00	$11,625.00
		Sub total	$11,625.00
		Shipping & Handling Charge	$200.00
		SALES TAX	$ n/a
		Amount Due	**$11,825.00**

Make all checks payable to: ALMx-Security Inc.
If you have any questions concerning this invoice, call: Alan L. MacLachlan,
Phone Number (425) 485-3801

THANK YOU FOR YOUR BUSINESS!

Invoice

Sopko Welding, Inc.
2375 N. Holladay
Seaside, OR 97138
(503)739-6133 cell
(503)717-4122 fax

Date	Invoice #
6/3/2015	1848

Bill To

cannon Beach Fire District
PO Box 24
Cannon Beach, OR 97110

P.O. No.	Terms	Project
Gary	Net 30	

Quantity	Description	Rate	Amount
	5/20/15: Crane - set sirens	441.00	441.00

All major credit cards accepted through Paypal

Total $441.00

email address: 3103Joe@ gmail.com

Cannon Beach Rural Fire Protection District PO Box 24 Cannon Beach, OR 97110

503-436-2949 phone 503-436-9639 fax

INVOICE:

TO: ***City of Cannon Beach*** **FOR:** ***Orford Street Warning System Upgrade***

DATE: ***February 17, 2011***

Remove and replace siren speakers, electronics at Orford St. COWS Siren System

Item	Total
City of Cannon Beach **Project Commitment**	**$12,000**

Please make check payable to: Cannon Beach RFPD

Due Date: March 15, 2011

"DEDICATED TO PROTECT LIFE, PROPERTY, AND THE ENVIRONMENT"

Cannon Beach Rural Fire Protection District PO Box 24 Cannon Beach, OR 97110

503-436-2949 phone 503-436-9639 fax

INVOICE:

TO: ***City of Cannon Beach*** **FOR:** ***Orford Street Warning System Upgrade***

DATE: ***February 17, 2011***

Remove and replace siren speakers, electronics at Orford St. COWS Siren System

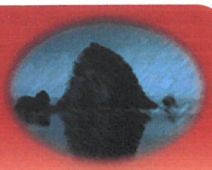
Item	Total
City of Cannon Beach **Project Commitment**	**$12,000**

Please make check payable to: Cannon Beach RFPD

Due Date: March 15, 2011

"DEDICATED TO PROTECT LIFE, PROPERTY, AND THE ENVIRONMENT"

Cannon Beach
Rural Fire Protection District
188 Sunset Blvd · PO Box 24 · Cannon Beach OR 97110
(503) 436-2949 · Emergency: 9-1-1 · www.cbfire.com · info@CBFire.com



CORRESPONDENCE

Cleve
2 July 99

ORFORD ST COWS:

During first couple years after its 1988 installation, the pole settled into a lean toward the north. The speaker unit (sixteen speakers in banks of four each) had been aligned horizontally - but the pole going out of alignment aims the south bank of speakers upward and the north bank downward.

Probably the north bank hasn't become downward enough to matter, i.e. speaker output of 115 decibels (measured 100 ft straight out from the speakers) isn't striking straight into any house. But the south bank of speakers, aiming upward from horizontal, diminishes effectiveness of their coverage to the south. Sound tends to rise as the range lengthens, the energy moving more easily into thinner air than toward the ground.

Reports that the unit isn't being effectively heard in the Braillier & Pacific area, if speakers in the cluster aimed south are all working, may arise from the lack of proper alignment. By adjusting that cluster downward, much remedy should be obtained.

Attached is the diagram showing how the speaker cluster can be tilted.

When that adjustment is made, it would likely be worthwhile to tilt the westward speaker cluster downward also - to increase effectiveness on the beach area. The eastward cluster has never been a problem, being heard strongly in Haystack Heights.

Yesterday's "Silent Test" of #1002 did not appear to have triggered it's display of test lights. There seem to be three possibilities:

1. That the lights were triggered but the direction of sunlight onto the cabinet at time of the test made them to obscure to be seen from the ground, or

2. The unit is out of commission, or

3. In some changeover, the Orford station's radio is another number than #1002.

Whatever the situation, the station needs work to correct its problems - and we can count on the Braillier & Pacific situation to escalate into high profile in the city if the problems aren't promptly solved. The complaints have been going on for several months - and involve criticism that our system is too complicated and we'd be better off with simple mechanical sirens. We've got several ill-informed cooks standing by to stir the pot if we lag in dealing with our problems (which include resuming regular monthly testing).

Regular monthly testing had been discontinued to preserve our batteries which were predominately failing very prematurely in the Markham/Beach and Washington/Ocean

stations. However, both those stations now have been converted to the four-battery system. With surprising rise of queries about why the tests are no longer being heard, their regularity should be resumed - public relations outweighing whatever battery expenses we incur pending conversion of all stations to the four-battery system.

If the Orford station is out of commission, that points all the more to need for resuming regular monthly tests.

If it is out of commission, and weather deters proper repairs, then the Police Dept needs to be warned that in an evacuation emergency they'll need to help clear the beach and frontage area south of Tolovana Inn.

The whole evacuation issue boils down to:

1. If the ground shakes, people shouldn't wait for any alarm before heading for high ground. All residents should know this. Visitors may not, and COWS sirens and announcements should reduce their casualties.

2. If we receive a TSUNAMI WATCH or TSUNAMI WARNING there will be time (in most cases) to remedy any COWS coverage gaps with emergency vehicles having mobile PA speakers. We might consider mounting the customized PA system taken off the old Arch Cape pumper onto the Blazer kept in the Main Fire Station. The Blazer's ability to operate easily on the beach could be a valuable asset that way or in an emergency traffic control situation.

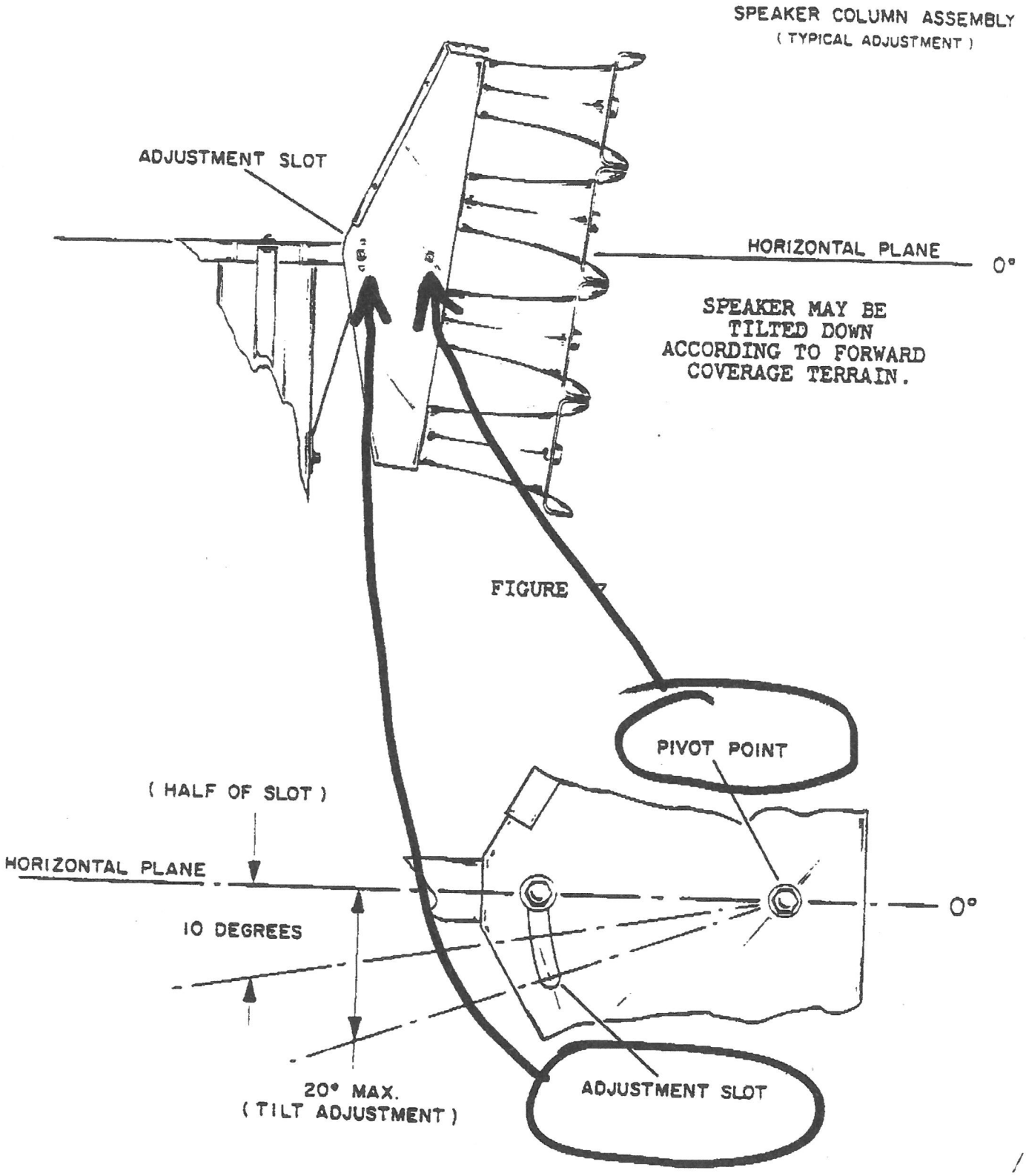

SPEAKER COLUMN ASSEMBLY
(TYPICAL ADJUSTMENT)
ADJUSTMENT SLOT
HORIZONTAL PLANE
0°
SPEAKER MAY BE TILTED DOWN ACCORDING TO FORWARD COVERAGE TERRAIN.
PIVOT POINT
(HALF OF SLOT)
HORIZONTAL PLANE
0°
10 DEGREES
20° MAX.
(TILT ADJUSTMENT)
ADJUSTMENT SLOT

FIGURE 8

PO Box 24
188 Sunset Blvd.
Cannon Beach, OR 97110
Phone: 503-436-2949
Fax: 503-436-9639

Cannon Beach RFPD

Fax

To:	Steve Newby, Pacific Public Safety	**From:**	Cleve Rooper
Fax:	**717-1459**	**Date:**	July 3, 2001
Phone:	717-1458	**Pages:**	1
Re:	COWS Frequency	**CC:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

•**Comments:** Steve, the new frequency for the Community Warning System is **150.775.** Please leave me a phone message or a FAX to verify that you have received this message and that the frequency is correct. This makes me double check myself. I don't want to have the wrong crystals made because I transcribed them incorrectly. Thanks for your help. Cleve

Pacific Public Safety & Communications

2339 N. Holladay
P.O. Box 1154
Seaside, OR. 97138

Phone (503)717-1458
Fax (503)717-1459

May 11, 2001

Cannon Beach Fire

Dear Cleave

The projected costs are for the Fire Recrystal are:

Cable & Connector	$ 60.00
Micor Channel Element	$120.00
Crystal for Cows unit 6 @ $30.00	$180.00
Power Supply RS 35	$197.00
Antenna Antennas FG1523	$236.00
Labor 17 Hrs @ 60.00	$1070.00
Operating Supplies	$50.00
Shipping	$79.30

TOTAL COST	$1942.30
SOPKO (Gary)	$ 150.00
Cost Completed	$2092.30

Labor consist of:
Re-crystal of cows units and relocate controller. Installation of antenna with the use of Cannon Beach Fire Ladder Truck.
Gary says that Sopko has quoted him 150.00 for fabrication of the cross arm.

Cleve -

Here are pictures of the COWS stations' pole-tops towards helping determine which, if any, have deteriorated like the Orford/Ocean unit's which we've rebuilt.

Admittedly, only direct checkup of these pole-tops from the aerial ladder can establish what's what. However, these pictures don't appear to show any problems - except, perhaps, what may actually be condition of the Markham & Beach unit's stud bolts (page 1 of 5).

Unfortunately, these camcorder telephoto shots against the bright sky required lots of adjustment of the finished picture to bring out as much detail as possible - hence the odd appearances.

Regards the two WS 3000 stations, since those are highly direction (almost like a beam of light) my comments about their perhaps needing to be tilted a tad below horizontal is because sound projected tends to migrate upward (less density of the air) and, hence, effectiveness is compromised out at the far reach. These units can be adjusted up or down by means of their mounting studs in the base of the rotational gear case. Obviously any small adjustment up or down creates major change down-range, just like a slight shift of a rifle sight. But I'm quite sure that the Washington/Spruce is tilted upward from horizontal - whereas it should be 'sighted' on Les Shirley Park. As to how the Washington/Ocean unit may or may not be tilted I can't tell - one would need a carpenter level - as should also be used in adjusting Washington/Spruce by sighting along the level itself reliably aligned with the gear case base.

When the Orford/Pacific WS 2000-16 is reinstalled, we'll be carefully orienting its speaker assemblies for maximum effect. They'd never been aligned to compensate for how that pole went out of plumb.

To align one of the WPS 27XX units, one would need to install 'U-shape' spacers between the pole top cap and the base plate - there is no provision for adjustment as there is in the WS 3000. The Nebesna WPS 2740 very likely needs to be adjusted to compensate for how that pole went out of plumb.

04/28/2001 10:03 AM

5 attachments

Markham & Beach WPS 2730 pole cap and mounting studs

While the Core-10 pole cap does not appear to be delaminating, this stud nut may be deteriorating and there may be electrolytic deterioration of the stainless steel studs themselves in combination with the Core-10 steel.

U.S.101 & Hemlock WS 2000-16 pole-top braces

There does not appear to be the deterioration found on this station as was found on the identical equipment cormprising the Orford/Ocean station. The pole-top crosspeice and its braces appear to be sound in this station.

Nebesna WPS 2740 pole cap and mounting studs

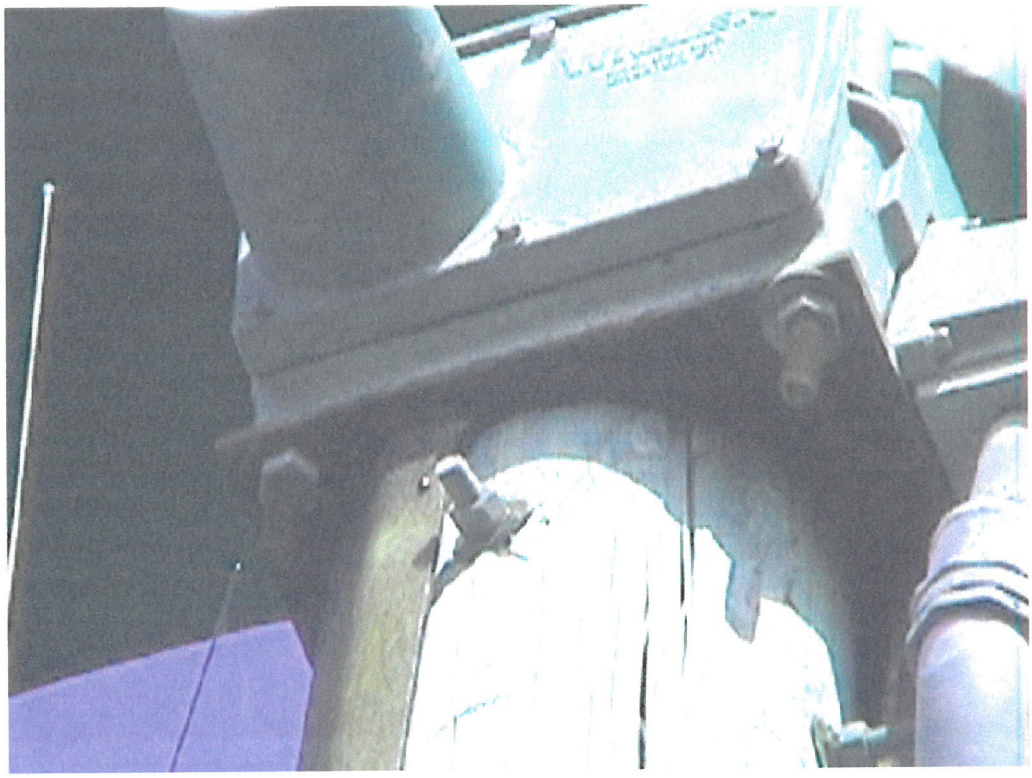
The pole cap does not appear to be delaminating. There may be electrolytic deterioration of the stainless steel studs in combination with the Core-10 steel of the pole cap.

Washington & Ocean WS 3000 pole cap with mounting studs

This pole cap has been hot-dip-galvanized and recently installed. Note appearance of the stud bolts which don't seem to show any deterioration.

This speaker assembly should be checked to insure it isn't tilted above horizontal, and perhaps should be adjusted to tilt slightly below horizontal.

Washington & Spruce WS 3000 pole cap and mounting studs



No deterioration appears evident, e.g. no apparent delamination of Core-10 steel in pole cap nor electrolytic deterioration of stainless steel stud bolts in relation to pole cap.

This speaker unit appears to be slightly aimed upward from horizontal and, if so, should be adjusted to tilt slightly downward from horizontal.

TCON with Alan MacLachlan - 28 Mar 08
Regards Memories of Hanford and Umatilla

Hanford Nuclear Reservation Wide-Area Warning System:

Dept of Energy ordered cutback in expense (2K per hour) - helicopters and speedboats. Congress cut budget and gave 30 days to develop solution. Hanford called around desperately - Duke Energy was contacted. SES had demonstration trailer enabling easier setup to avoid hawk nesting area defended by ecologists.

Benton County's Emergency Manager was dead-set against use of public address voice announcements (electronic siren feature). Test of SES equipment scheduled with TV and newspaper attendance. Alan removed jumper to disable voice for test, but mistakenly disabled siren without disabling voice. TV and newspaper representatives were delighted with voice, and Benton County Emergency Manager had no option but to stop objecting to voice.

Regards Hanford: Alan, 31 Mar 08, sent me the following record of the events, saying SES beat the deadline imposed on Hanford for the alarm system to be up and running, else Hanford would have had to shut down - costing millions of dollars:

Regular Board of Directors' Meeting July 10, 1992

B-11, from the Board meeting
FYI
ADC

President Sparks indicated that he understood M. M. Monopoli, Manager of Support Services, had addressed a topic at the last Executive Board meeting regarding the possibility that Lewis County would be renegotiating the transmission contract for power generated by the Packwood Lake Hydroelectric Project (Packwood) and that it could result in a substantial increase in cost. Mr. Mazur advised that he did not have the details on that matter, but would summon Mr. Monopoli to provide further information to the Board. C. E. Revell, Bonneville Power Administration Acquired Resources Manager, indicated he understood the matter involved some upgrades and a tie-in to the Cowlitz Falls Project, but he did not have all of the details.

Mr. Mazur noted that another item in relation to the outage that would be of interest to the Board was the emergency sirens. He explained that previously, the Supply System had relied on the Department of Energy (DOE) helicopter for use in evacuating the region surrounding the Columbia River in the event of an emergency. The helicopter would be used in conjunction with Coast Guard boats for evacuation purposes. In April 1992, DOE eliminated the helicopter. As a result, the Supply System needed an alternative source of notification. The Supply System's resolution to the problem was the purchase of temporary sirens, one of which Mr. Mazur advised was located in the Warehouse parking lot. Six of the sirens are located in different areas along the

Columbia River. All sirens were manufactured by a company in Seattle, shipped to the Supply System and approved by the NRC, DOE and the Federal Emergency Management Administration (FEMA) one week before start-up. By the end of the calendar year, permanent sirens will be installed. This is one more success story in terms of the outage activities.

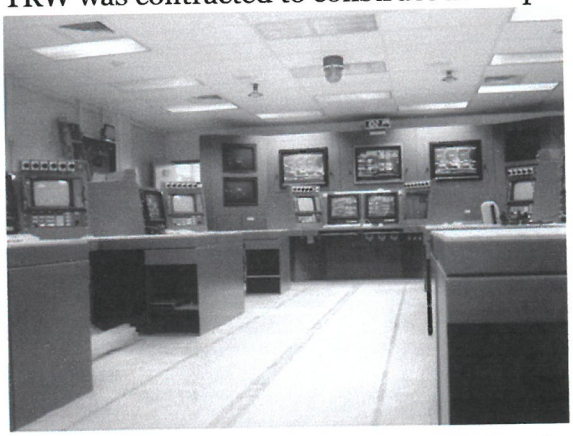
UPDATE ON THE COMBUSTION TURBINE PROPOSAL

D. W. Porter, Manager of Special Projects, updated the Board on events affecting the Combustion Turbine (CT) proposal since April 1992. Mr. Porter recalled that in April 1992 the Supply System was in a state of indecision on whether to submit an unsolicited proposal to the Bonneville Power Administration (BPA), questioning whether it could meet the 28 mill evaluated threshold. As a result, the proposals were evaluated separately and, finally, it was decided that if the contingency proposal was accepted, it must be accepted in conjunction with the unsolicited proposal. Therefore, on May 5, 1992 the decision was made to submit both proposals. Mr. Porter noted that typically BPA will perform an initial assessment of a contingency proposal and then notify the originator whether a "real" proposal is required.

Pursuant to discussions with local BPA staff, the Supply System was hopeful that the unsolicited proposal would pass the 28 mill threshold. The proposal underwent official screening in Seattle after its May 5, 1992 submittal and shortly thereafter, the Supply System was notified that the proposal had passed the threshold.

Umatilla Chemical Weapons Depot:

TRW was contracted to construct the depot's wide-area alarm system - spent hundreds of thousands on site study for Whelen 360° 2700 Series units. In some places TRW installed merely two-cell units. TRW installed a software control system (Alan called "lousy") too complex for Umatilla staff to operate. Problems arose so seriously Governor Neil Goldsmith angrily raised riot act for solutions. SES was engaged and straightened the system up - training personnel and providing efficient system.



My memory is of a young woman from Oregon Office of Emergency Management (which at the time when Whelen electronic siren units were being delivered to Umatilla was managed by incompetent Director) phoning me to ask decibel power of our most powerful Whelen unit. When I told her "124 decibels" she virtually gasped with shock and asked how we dealt with citizenry fears of hearing loss - the Whelen units thus far delivered being less powerful - but activist groups still raising hell. I explained the highly directional sound beam projected by such units - the decibel rating measured 100 ft directly out from the speakers. Speakers are approximately 35 ft above ground level (no more noise on ground immediately below than a school yard). The young woman was obviously highly upset about Umatilla area activists' strident claims that the electronic siren system would cause hearing loss in the communities. Out of patience with her resistance to the facts, I asked her whether she'd pointed out to the activists that they'd experience very permanent hearing loss if they inhaled escaping nerve gas which the Whelen alarm system would guard against. She'd not thought that at all humorous. She was, very obviously, ill-equipped to handle her job as was, also demonstrably, the OEM Director at the time. The latter, at an on-site coordination meeting explained that Umatilla's warning system radio frequency wouldn't conflict with the Sheriff's across the Columbia "because that's across the state line - across the river". Alan explained that radio knows no bounds - that it would conflict. She said she hadn't known that. Umatilla's Public Relations was just as badly qualified, a spokesman hoping to calm activist fears was quoted in newspaper as saying the electronic siren warning system probably wouldn't even be heard in town.

Cannon Beach
Rural Fire Protection District
188 Sunset Blvd · PO Box 24 · Cannon Beach OR 97110
(503) 436-2949 · Emergency: 9-1-1 · www.cbfire.com · info@CBFire.com

TECHNICAL

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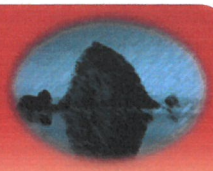


CORRESPONDENCE

The Tsunami Warning System – How Does It Work?

Here is how the basic tsunami warning system works in our area. First, a key concept – there are two sources of tsunami for the Washington and Oregon coastal waters – a distant source and a local source.

A local source – if you feel violent shaking for several minutes, head for higher ground. The earthquake is your warning. The most likely source for a violent earthquake of this magnitude is from the Cascadia Subduction Zone just off our coast. The last associated earthquake was estimated to be 9.0 in magnitude on Jan 26, 1700, and was similar to the Dec 26, 2004 Sumatra 9.0 magnitude earthquake and subsequent Indian Ocean Basin tsunami.

What To Do? - Simulations show the initial tsunami wave from the 1700 event reached the coast in 20 to 30 minutes – so time is limited. Geologic history showed waves with this event were as high as 30 feet. So you must get at least that high above sea level.

To top it off, the earthquake will also result in the coastal area subsiding as much as six feet, meaning the ground and roadways will likely be very uneven, and you are now that much lower to sea level. Since the roads will be in pieces, evacuation must be on foot. Another form of evacuation is vertical evacuation into a sturdy building of at least three stories and climb to at least the third story.

Other area earthquake faults could produce such strong violent quakes, such as the Seattle fault that produced a tsunami in Puget Sound about 1100 years ago. Yet, the most likely source for a local tsunami is the Cascadia Subduction Zone off our coast.

A Distant Source – The perimeter of the Pacific Ocean Basin, nicknamed the Ring of Fire, has a number of earthquake sources that can produce strong earthquakes of 7.0 magnitude or greater. During the 20th century, there were three 9.0 magnitude or greater quakes, the last was the 1964 Alaskan quake of 9.2 magnitude that produced a tsunami throughout the Pacific Basin. These kind of earthquakes permit a lead time of hours before their subsequent tsunami reaches the Washington coastline. Tsunamis from distant locations like Japan or Chile will take over 10 hours to get here, while from Alaska, only three to six hours.

Tsunamis generated from both sources of earthquakes do penetrate up the Columbia River, into the Puget Sound region via the Strait of Juan de Fuca, and up coastal rivers, harbors and bays, but lose energy as they move further inland.

What To Do? - A Tsunami Warning System has been put into place to help minimize loss of life and property. The West Coast/Alaska Tsunami Warning Center in Palmer, Alaska monitors for earthquakes and subsequent tsunami events. If a tsunami is generated, they issue tsunami watches and warnings, as well as tsunami information bulletins for Alaska, British Columbia and Washington, Oregon and California.

The Pacific Tsunami Warning Center in Ewa Beach, Hawaii provides the same service for the Aloha state as well as all other American territories in the Pacific. They also serve as the International Tsunami Warning Center for 26 member countries in the Pacific Ocean Basin.

Both of the tsunami warning centers use earthquake information, tide gauges and now a new tool from NOAA – tsunami detection buoys, developed by NOAA's Pacific Marine Environmental Lab. Six of these buoys are now deployed in the north Pacific to help scientists determined whether a tsunami has been generated and moving across the Pacific before reaching North American coastlines – another tool in the tsunami warning centers warning toolbox to help avoid any false alarms. More of these buoys would help detection as well as provide backup to each other since the buoys suffer outages in the harsh north Pacific Ocean.

Upon receipt of tsunami watches and warnings, coastal National Weather Service (NWS) offices such as those in Seattle and Portland, activate the Emergency Alert System (EAS) via NOAA Weather Radio. All broadcasters (TV, AM/FM radio, cable TV) receive the tsunami EAS message simultaneously as well as those with weather radio receivers in homes, businesses, schools, health care facilities, etc. NOAA Weather Radio also activates the All-Hazard Alert Broadcast (AHAB) units located in remote coastal areas, alerting people in those isolated locations.

Upon receipt of tsunami watch and warning messages, local emergency management officials can decide to activate EAS to evacuate low-lying coastal areas in advance of the initial tsunami wave. Their EAS messages are also received by broadcasters, weather radio receivers and AHABs to help provide widespread dissemination of these messages. Follow the directions provided by your area emergency management officials – they will help save your life and those of your loved ones.

If you want your own tsunami warning message receipt system, obtain a weather radio receiver with EAS-programmable features. They are available from most radio electronic retailers and on the Internet.

Education is another key element in the tsunami warning system. Many coastal areas have designated tsunami inundation zones and marked evacuation routes to assist residents and visitors to higher ground. Emergency management officials also distribute tsunami education information, conduct community meetings and workshops, and many more awareness activities.

The National Weather Service recognizes communities with strong tsunami warning and awareness programs through the TsunamiReady Community program. Such communities are recognized for their efforts to enhance their tsunami warning system, widespread use of weather radio receivers and community awareness activities. TsunamiReady road signs are also a part of NWS recognition.

Following is a diagram, briefly depicting the tsunami warning system process as well as specific terminology and links to more information.

Terminology and Links for more Information

Tsunami - Tsunamis are ocean waves produced by earthquakes or underwater landslides. The word is Japanese and means "harbor wave," because of the devastating effects these waves have had on low-lying Japanese coastal communities. Tsunamis are often incorrectly referred to as tidal waves, but a tsunami is actually a series of waves that can travel at speeds averaging 450 (and up to 600) miles per hour in the open ocean.

In the open ocean, tsunamis would not be felt by ships because the wavelength would be hundreds of miles long, with an amplitude of only a few feet. This would also make them unnoticeable from the air. As the waves approach the coast, their speed decreases and their amplitude increases. Unusual wave heights have been known to be over 100 feet high. However, waves that are 10 to 20 feet high can be very destructive and cause many deaths or injuries.

From an initial tsunami generating source area, waves travel outward in all directions much like the ripples caused by throwing a rock into a pond. As these waves approach coastal areas, the time between successive wave crests varies from 5 to 90 minutes. The first wave is usually not the largest in the series of waves, nor is it the most significant. Furthermore, one coastal community may experience no damaging waves while another, not that far away, may experience destructive deadly waves. Depending on a number of factors, some low-lying areas could experience severe inland inundation of water and debris of more than 1,000 feet.

Tsunami Watch – **An alert issued to areas outside the warned area.** The area included in the watch is based on the magnitude of the earthquake. For earthquakes over magnitude 7.0, the watch area is 1 hour tsunami travel time outside the warning zone. For all earthquakes over magnitude 7.5, the watch area is 3 hours tsunami travel time outside the warning zone. The watch will either be upgraded to a warning in subsequent bulletins or will be cancelled depending on the severity of the tsunami.

Tsunami Warning – **Indicates that a tsunami is imminent and that coastal locations in the warned area should prepare for flooding.** The initial warning is typically based on seismic information alone. Earthquakes over magnitude 7.0 trigger a warning covering the coastal regions within 2 hours tsunami travel time from the epicenter. When the magnitude is over 7.5, the warned area is increased to 3 hours tsunami travel time. As water level data showing the tsunami is recorded, the warning will either be cancelled, restricted, expanded incrementally, or expanded in the event of a major tsunami.

Emergency Alert System – http://www.fcc.gov/eb/eas/
Emergency Alert System in Washington - http://www.wsab.org/eas/eas.html
Emergency Alert System in Oregon - http://www.sbe124.org/or_eas

All-Hazards NOAA Weather Radio – http://www.nws.noaa.gov/nwr/

All-Hazards NOAA Weather Radio in Washington state –
- National Weather Service - http://www.wrh.noaa.gov/sew/nwr1.php
- Washington State Emergency Management –
http://emd.wa.gov/5-prep/trng/pubed/weather/wxradio-idx.htm

All-Hazard Alert Broadcast (AHAB) – A self-sufficient wind or solar powered warning system located in remote locations. It activates a brilliant blue US Coast Guard light and siren heard for at least a mile upon receipt of an emergency message, such as a tsunami watch or warning. It also records and repeats the verbal emergency message for those near the AHAB.

Tide Gauge – An instrument that measures the alternate rising and falling of the waters of the ocean, and of bays, rivers, etc., connected therewith. The tide ebbs and flows twice in each lunar day, or the space of a little more than twenty-four hours.

Seismometer –
http://interactive2.usgs.gov/faq/list_faq_by_category/get_answer.asp?id=193

Cascadia Subduction Zone –
http://www.pnsn.org/HAZARDS/CASCADIA/cascadia_zone.html

Pacific Marine Environmental Lab – http://www.pmel.noaa.gov/
(includes tsunami and tsunami monitoring links)

Tsunami Detection Buoys – http://www.ndbc.noaa.gov/dart.shtml
(located in the north Pacific Ocean)

West Coast/Alaska Tsunami Warning Center – http://wcatwc.arh.noaa.gov/
(responsible for coastal waters from Alaska to California, including Washington)

Pacific Tsunami Warning Center – http://www.prh.noaa.gov/ptwc/
(responsible for all American interests in the Pacific, including Hawaii)

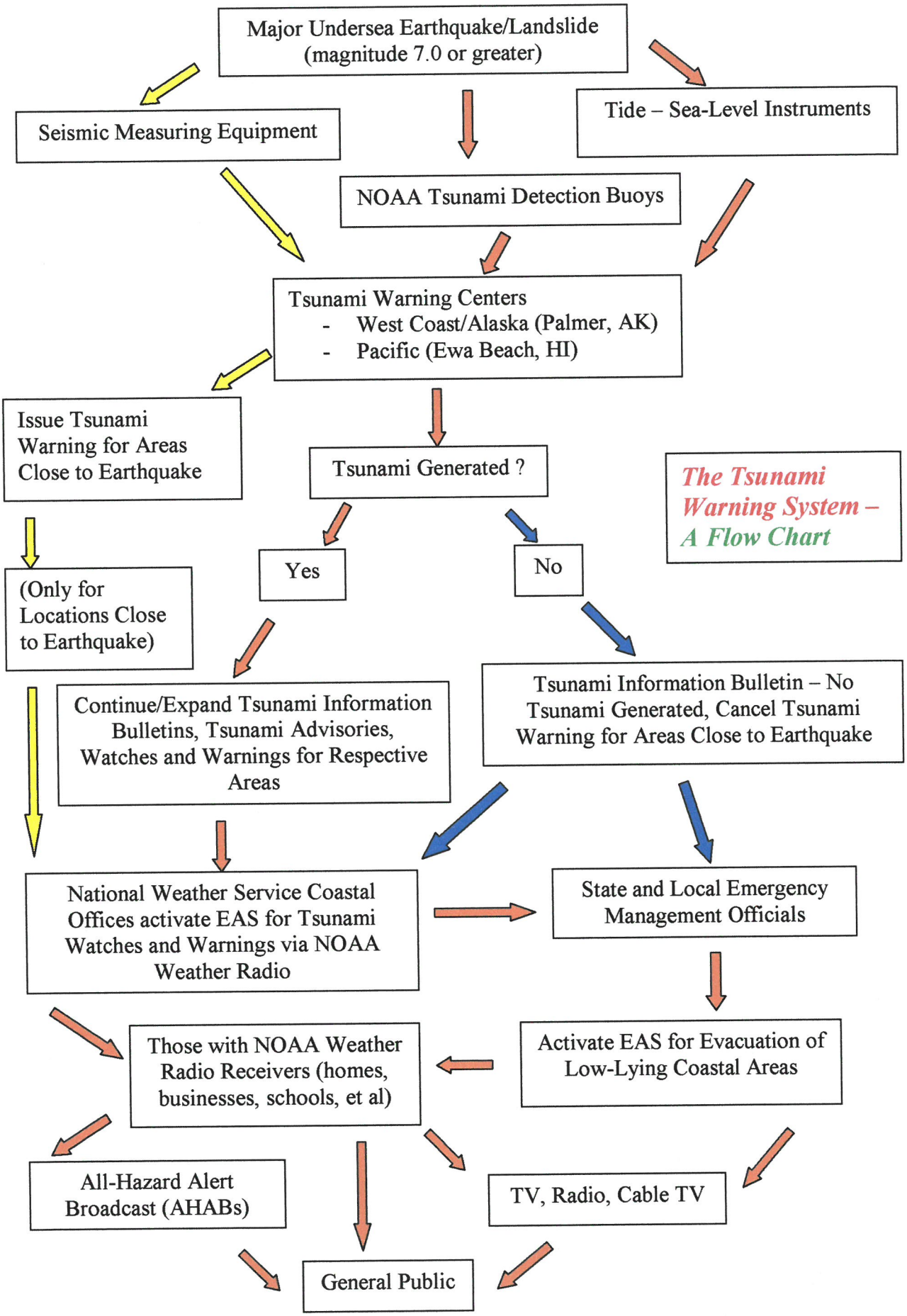
International Tsunami Warning Center – http://www.prh.noaa.gov/itic/
(responsible for the other 25 member nations in the Pacific Ocean Basin)

NOAA – National Oceanic and Atmospheric Administration – http://www.noaa.gov

National Weather Service – http://weather.gov

National Weather Service Seattle – http://weather.gov/seattle

National Weather Service Portland – http://weather.gov/portland


Major Undersea Earthquake/Landslide (magnitude 7.0 or greater)
Seismic Measuring Equipment
Tide – Sea-Level Instruments
NOAA Tsunami Detection Buoys
Tsunami Warning Centers
- West Coast/Alaska (Palmer, AK)
- Pacific (Ewa Beach, HI)
Issue Tsunami Warning for Areas Close to Earthquake
Tsunami Generated ?
The Tsunami Warning System – A Flow Chart
(Only for Locations Close to Earthquake)
Yes
No
Continue/Expand Tsunami Information Bulletins, Tsunami Advisories, Watches and Warnings for Respective Areas
Tsunami Information Bulletin – No Tsunami Generated, Cancel Tsunami Warning for Areas Close to Earthquake
National Weather Service Coastal Offices activate EAS for Tsunami Watches and Warnings via NOAA Weather Radio
State and Local Emergency Management Officials
Those with NOAA Weather Radio Receivers (homes, businesses, schools, et al)
Activate EAS for Evacuation of Low-Lying Coastal Areas
All-Hazard Alert Broadcast (AHABs)
TV, Radio, Cable TV
General Public

PRODUCT DESCRIPTION

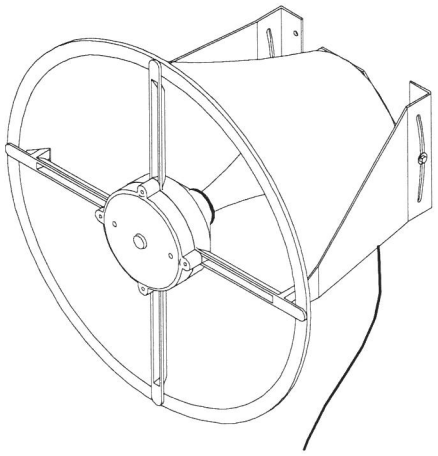
Model WS400H, SPEAKER ASSEMBLY

Part # 01-1482861-00
Doc. # 04-0113242-00

GENERAL-

Whelen Model WS400H is a 400 watt directional speaker, capable of producing 118 dbC @ 100 feet, intended for use in personnel warning applications, where high power weather-proof or rugged installation is required.

The speaker flare is made from fiberglass, with a powder painted, spun aluminum re-entrant horn section. A corrosion resistant, cast aluminum housing provides a protective, weather-proof enclosure for the driver and wiring terminals. Two feet of 16 AWG, 2 conductor cable exits through the bottom of the speaker for field wiring. A heavy duty, painted bracket allows the installer to flush mount the speaker and angle it down approximately 15 degrees. An optional pole mount kit is available.



INSTALLATION-

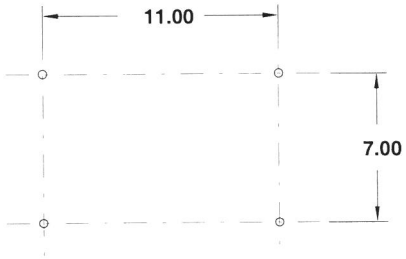
Determine the location of the speaker. Mount to a rigid, flat structure, using the supplied mounting bracket. The mounting bracket hole pattern is shown in the detail drawing. Position the speaker as required. Do not position the speaker pointing upward, if there is a possibility of filling with water. A mounting height greater than 25 feet is recommended. **Follow all local regulations regarding personnel exposure to high sound pressure level output.**

The four mounting holes on the rear mounting bracket are designed to accept 3/8" hardware. Mounting hardware is not supplied. Rigid steel conduit is recommended for outdoor installations. A few feet of flexible conduit is acceptable at the speaker. A junction box may be required.

A 4 AWG copper ground wire may be required from the mounting bracket to ground for lightning protection. Follow all local codes regarding grounding.

Use wire nuts to connect the speaker wires to the audio wires from the control cabinet. Polarity is not critical. (Wire not included.)

Recommended wire size is 14 AWG for 0 - 100 ft. runs, 12 AWG for 100 - 200 ft. runs.



WS400H MOUNTING PATTERN

PIONEERS IN WARNING SIGNALS
WHELEN®
ENGINEERING COMPANY, INC.
Route 145, Winthrop Rd., Chester, CT 06412-0684
Tel.: (800) 63 SIREN • Fax: (860) 526-4784

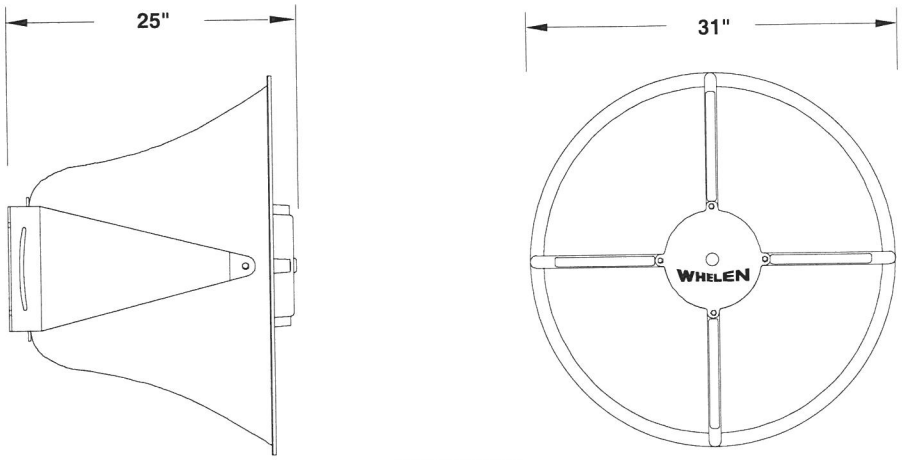
WS400H SPEAKER ASSEMBLY — PRODUCT SPECIFICATIONS

Dimensions

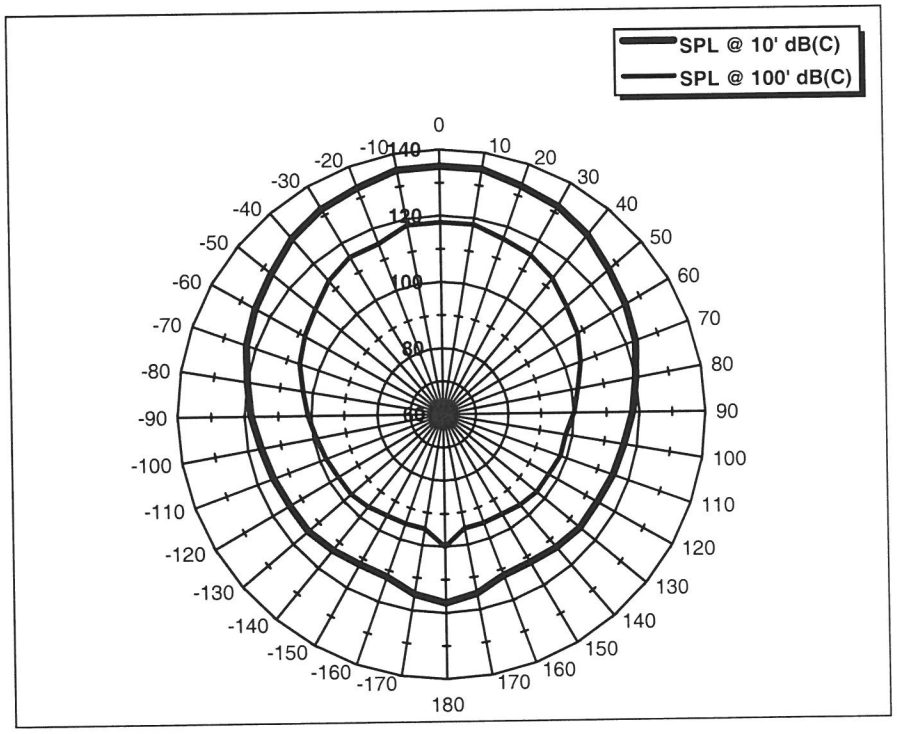
Diameter:	31" (78.7 cm)
Depth:	25" (63.5 cm)
Weight	72 lbs. (32.7 kg)

Finish

Speaker Flare:	Fiberglass, Gray
Driver Housing:	Almag, Natural
Brackets, Horn	Powder Paint, Gray

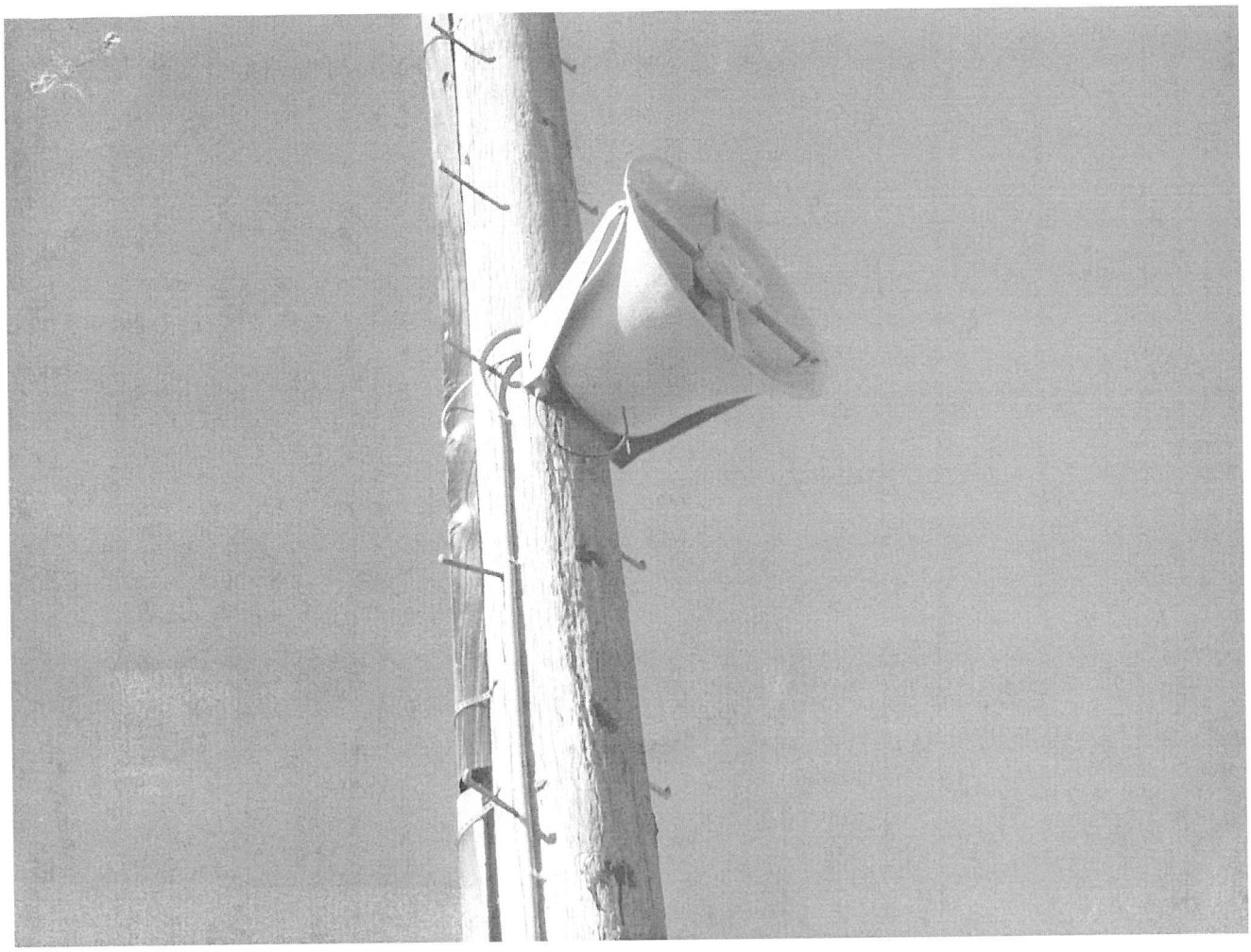


DIMENSIONS



Notes:
1. SPL (Sound Pressure Level) readings are +/- 2 dbC.
2. Measurement based on Whelen Amplifier 01-0285564-00C, Wail tone.
3. Mounting hardware, conduit, speaker to cabinet wire, junction box, and ground wire are not included.

PIONEERS IN WARNING SIGNALS
WHELEN®
ENGINEERING COMPANY, INC.
Route 145, Winthrop Rd., Chester, CT 06412-0684
Tel.: (800) 63 SIREN • Fax: (860) 526-4784



Gary Smith

From: Sesusabill@aol.com
Sent: Monday, July 12, 2010 5:07 PM
To: cbeco@charter.net
Cc: maclachl4@aol.com; skamania@seasurf.net
Subject: WS400H specification

Gary,

Little exists to show exactly the output for each column on the 2016, but my calculations come to 114 dBC @ 100'. The WS400H is rated 4dB higher so should be a satisfactory replacement. After seeing the installation on google earth, I agree replacement of the rather large 2016 array with four of the WS400H will not likely add to the wind load now experienced.

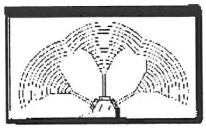
I looked today at typical choices to replace what you have and compared to other directional horns, this is really the only single loudspeaker on the market that can do the work of four. It uses standard WHELEN driver and I know it's ruggedly built. You have a copy of the spec sheet so I'm attaching a picture so you get a better perspective of how it fits a pole in single use.

..... bill

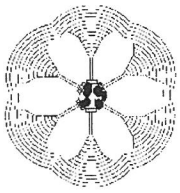
W. K. Bill Flynn, Project Manager
ALMx Security, Inc.
360.592.1352 Office
360.815.2364 Mobile

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.830 / Virus Database: 271.1.1/3002 - Release Date: 07/12/10 23:36:00

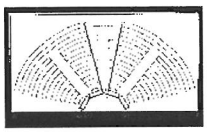
QTY four 100W Drivers



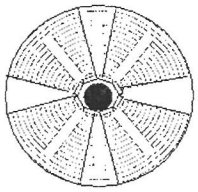
Wavefronts as they radiate from points of origin. Typically, points are separated in space, illustration clearly shows why interference will happen at coverage boundaries.

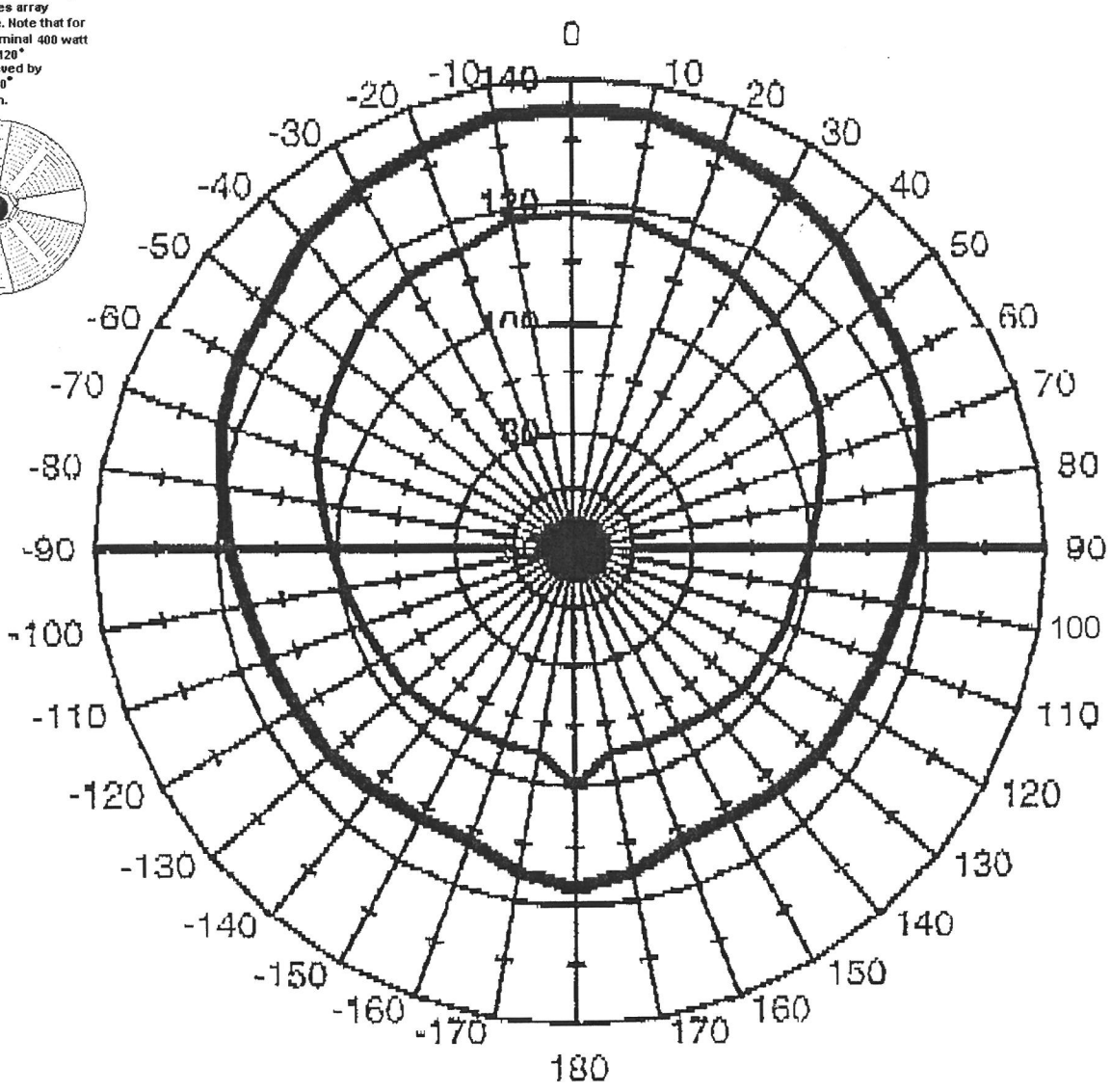


QTY one 400 W Drivers



Locating apparent apex of driver to center of a single horn improves array performance. Note that for the same nominal 400 watt coverage of 120° may be achieved by blocking a 360° speaker horn.

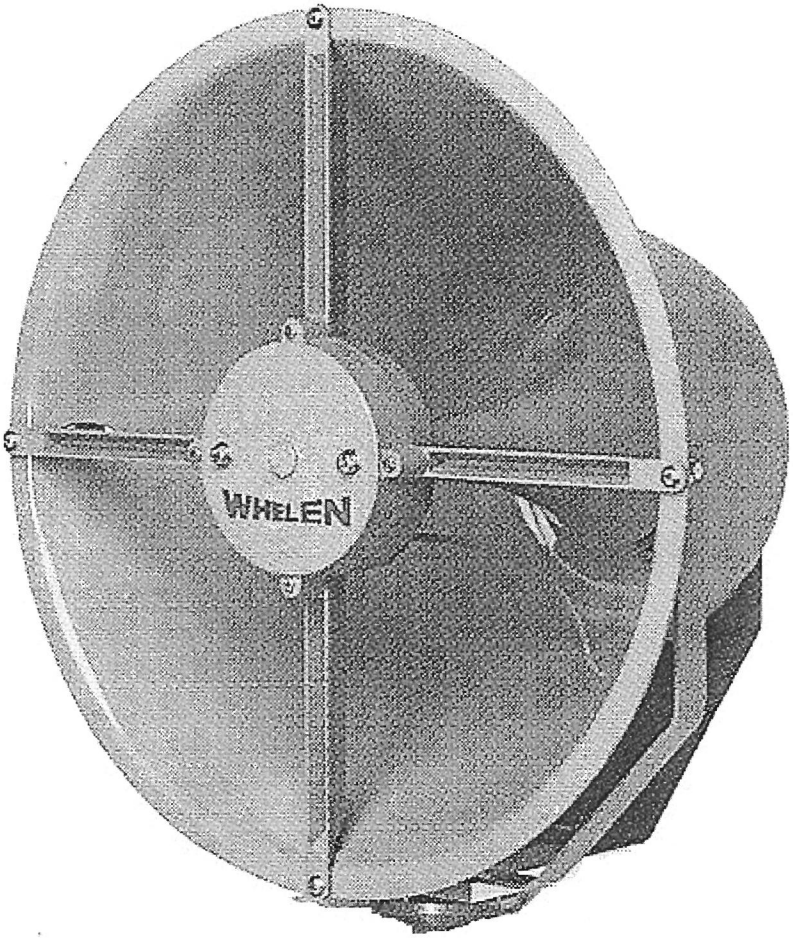




Gary Smith

From: Maclachl4@aol.com
Sent: Friday, July 16, 2010 8:11 PM
To: cbeco@charter.net
Subject: WS400H

Garry the weight of the speaker WS400H should be calculated wirh wind loud as it phyical weigh is about 100 lb. When making the bracket I suggest assuming 200 lb which should cover the unknown effects of wind so it will have to be a rebust mounting bracket. . The size is about 40 inches High, 30 inches wide, and 23 inches deep.



Alan

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.839 / Virus Database: 271.1.1/3014 - Release Date: 07/18/10 11:35:00

Cannon Beach Rural Fire Protection District PO Box 24 Cannon Beach, OR 97110

503-436-2949 phone 503-436-9639 fax

INVOICE:

TO: ***City of Cannon Beach*** **FOR:** ***Orford Street Warning System Upgrade***

DATE: ***February 17, 2011***

Remove and replace siren speakers, electronics at Orford St. COWS Siren System

Item	Total
City of Cannon Beach **Project Commitment**	**$12,000**

Please make check payable to: Cannon Beach RFPD

Due Date: March 15, 2011

"DEDICATED TO PROTECT LIFE, PROPERTY, AND THE ENVIRONMENT"

E2010
CENTRAL STATION CONTROL

Specification Data

GENERAL

The E2010 Central Station Control is configured to make maximum use of Call Keys or preprogrammed scenarios. In addition, commands are grouped into easy to follow categories for Warning Tones, Digital Voice Messages, Direction (if applicable) and Status. A numeric keypad section allows for individual remote siren addressing.

A 4 line by 40 character LCD display shows all Keyboard and Status activity. Command and Status information are also sent to a printer port and a serial communication port for a PC.

All preprogrammed functions are stored in non-volatile memory. Time and date are protected by internal, rechargeable batteries.

A keylock is available to disable the keyboard, but all status information is still active.

COMPUTER REQUIREMENTS

PC with 486DX or Higher CPU

WINDOWS® 95 or 98

CD-ROM Drive

Comm. Port

Hard Disk Space Required:
8 MB

PRINTER OPTION

Optional. 9 pin, dot matrix, 120 CPS, tractor feed, with parallel cable. Designed to be used with an Okidata #184 printer.

COMMUNICATIONS

Transmitter Connection:
(Typical 1 of 2 transmitters)

Squelch

Push to Talk
(N.O., N.C. Contacts)

Transmit Audio

Receive Audio

Channel Grant Active (for Trunking)

Signaling:
DTMF 2 of 8 Format. 10 Digit Transmit.14-18 Digit Receive.

Tone Level:
Audio Level Adjustable.

Transmitter Delay:
User Selectable Delay Times.

DIMENSIONS

Height: 3"

Width: 17"

Depth: 9"

Weight: 4.5 lbs.

ELECTRICAL

120 VAC, UL Listed, Wall Mount Transformer.

ORDERING INFORMATION

E2010
Central Station Control Unit.

E2010R
Central Station Control Unit (Rack Mount).

E2010P
Printer Option for Okidata #184 Printer and Cable.

E2010FSK
FSK Internal Option.

WHELEN®
ENGINEERING COMPANY, INC.
PUBLIC WARNING PRODUCTS
Route 145, Winthrop Road
Chester, Connecticut 06412-0684
(860) 526-9504
1-800-637-4736
Fax: (860) 526-4784
Internet: www.whelen.com
e-mail: iowsales@whelen.com

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Tornado photo courtesy NOAA/NSSL
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07010S-108840

E2010
CENTRAL STATION CONTROL

WHELEN®

Encoder/Decoder

Control and monitor your siren warning system from a central location. The E2010 allows the user to issue system activations and collect remote siren status via RF link or landline.

Features Whelen's field proven COMM/STAT™ Command and Status Monitoring protocol, for fast, secure, and reliable communication.

The E2010 supports all of the features that are available in Whelen's High-Power Voice and Siren product line, from individual Command selection to user programmed command scenarios or Call Keys. With the selection of one Call Key, an operator may prompt the encoder to issue multiple commands.

With the included computer accessory software, you can connect the E2010 to a PC for Windows® based programming and data archiving. Data is available through an ACCESS® data base.

E2010 FEATURES

- 4 line by 40 character backlit, LCD display
- 16 "HOT" Call Keys
- 40 Auxiliary Call Keys
- 2 Time-Of-Day Call Key Activations
- 4 Remote Input Call Keys
- Automatic System Polling
- Internal Alarm Tone
- 2 Contact Closure Outputs for Alarms
- Base Radio Interface
- Channel Grant Input for Trunking Radio Systems
- Optional FSK Signaling
- Security Keylock
- Printer Port
- Battery Backup for Time and Date
- Rugged, Membrane Keyboard
- Microphone for Public Address E2010

COMPUTER INTERFACE FEATURES

- CD-ROM and 9 Pin "D" Cable included
- "Windows®" Based Call Key Programming
- Add Call Key Descriptions
- Hard Drive Archive of All Siren Activity
- Selective Printouts for Status by Siren Location or Date

Cleve Rooper

From: "Gary Smith" <cbeco@charter.net>
To: "'Cleve Rooper'" <cleve@cbfire.com>
Sent: Monday, April 11, 2011 11:33 AM
Subject: FW: Tape Copy of Emergency Messages

-----Original Message-----
From: Sesusabill@aol.com [mailto:Sesusabill@aol.com]
Sent: Sunday, April 10, 2011 5:10 PM
To: cbeco@charter.net
Cc: maclachl4@aol.com
Subject: Tape Copy of Emergency Messages

MINI-DISC RECORDER?

Garry,

I went over the tape you provided and came to the conclusion that it should work; just that the first message is not heard over the speakers because they are in the siren mode.

SEQUENCE:

1 - 679####1 - ALERT TONE - Sirens should go for three minutes
2 - 2-tone pager alert
3 - EMERGENCY VOICE MESSAGE - will not be heard over the siren system because the siren is still in the ALERT mode.
4 - 679####0 - Sirens Off
5 - 679####4 - Public Address mode
6 - EMERGENCY VOICE MESSAGE - should be heard
7 - 679####4 - Public Address mode
8 - EMERGENCY VOICE MESSAGE - should be heard
9 - 679####4 - Public Address mode
10 - 679####0 - sirens off - may hear DTMF tones because the siren is in PA mode.

END

The system should have responded thusly:
Siren tone for three minutes
Pause
Voice message
short pause
Voice message
DTMF tones
OFF

We have found it is desirable to send the CLEAR (like 4,5) before activating the sirens, although they will usually respond to commands while active in siren or PA

mode. Levels are of great importance as the radio signal must be clear and without distortion for the sirens to properly activate.

Hope this helps,

..... bill

W. K. Bill Flynn, Project Manager
ALMx Security, Inc.
360.592.1352 Office
360.815.2364 Mobile

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1209 / Virus Database: 1500/3565 - Release Date: 04/11/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1209 / Virus Database: 1500/3565 - Release Date: 04/11/11