

DESIGN REVIEW BOARD Staff Report

Planning and Environmental Services 130 Cremona Drive, Suite B, Goleta, CA 93117 Phone: (805) 961-7500 Fax: (805) 961-7551 www.cityofgoleta.org

AGENDA ITEM L-2

DATE: May 11, 2010

TO: Goleta Design Review Board FROM: Shine Ling, Assistant Planner

SUBJECT: 10-049-DRB; Raytheon SBRC Nitrogen Tanks; 44 Castilian Drive; APN

073-150-003

APPLICANT: Brian Beebe

Anderson Systems 5958 Corta Street. Goleta, CA 93117

PROJECT DESCRIPTION:

This is a request for *Conceptual/Preliminary* review. The property includes a 46,750-square foot commercial building, a 650-square foot water filtration equipment yard, and a 3,623-square foot rear equipment yard, and a 138-square foot emergency generator/equipment area, on a 3.25-acre parcel in the M-RP zone district. The applicant proposes to replace two liquid nitrogen storage tanks within the rear equipment yard with two larger tanks. The tanks occupy an area of approximately 105 square feet and have a height of 31 feet. The project would be constructed in phases, with one tank to be installed in 2010 and the other in 2011. No changes to parking or landscaping are proposed. The project was filed by Brian Beebe of Anderson Systems, agent, on behalf of Peter Goodell for Castilian Associates, property owner. Related cases: 09-147-LUP.

BACKGROUND:

The project was submitted on March 31, 2010. This is the first time the project has been before the DRB. There are no known violations on the property.

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ANALYSIS:

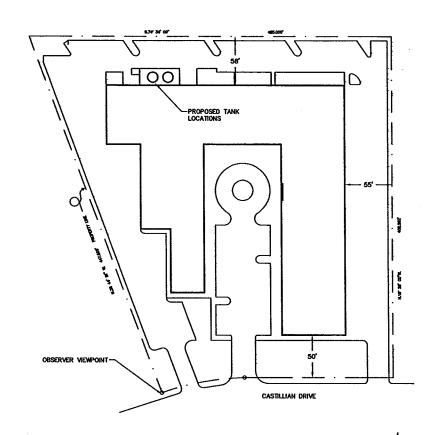
Zoning Consistency:

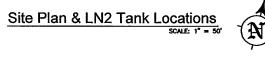
	Required	Proposed	Consistent Y/N
Front Yard Setback	80 feet from Centerline 50 feet from right-of- way	80 feet from Centerline 50 feet from right-of-way (no change)	Yes
Side Yard Setback	10 feet	Greater than 10 feet (no change)	Yes
Rear Yard Setback	10 feet	Greater than 10 feet (no change)	Yes
Building Height	35 feet	Building height, 21 feet Tank height, 31 feet (no change)	Yes
Lot Coverage	Not more than 35% of the net area of the property shall be covered by buildings or structures	33.5%	Yes
Parking spaces	1 space per 500 square feet of floor area 94 spaces required	100 spaces	Yes
Landscaping	Not less than 30% of the net area of the property shall be landscaped	16.3%	Yes, per Development Plan 77-MP-6

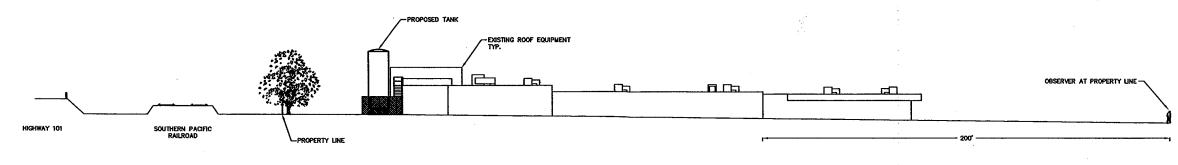
The proposed project is consistent with the above requirements of the Inland Zoning Ordinance (Article III of Chapter 35).

ATTACHMENTS:

• Reduced 11" x 17" copies of site plans and elevations.







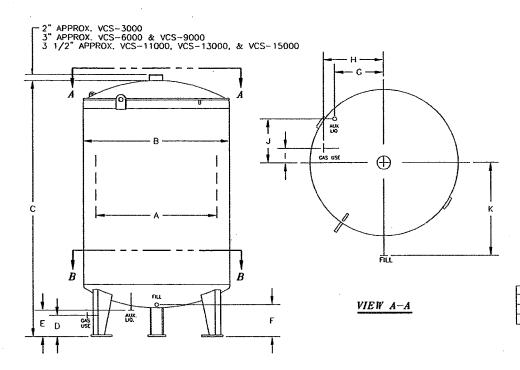
Building Elevation
NO SCALE

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City of Goleta Planning & Environmental Svcs.

Replacement N2 Tank Raytheon – B08 Color		DATE APPV
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Replacement N2 Tank Replacement N2 Tank Replacement N2 Tank Plan & Elevations 44 Castilian Drive Goleta, CA 93117 Nitrogen Tank Replacement	ANDERON SYSTEMS BESTELL STOP STOP STOP STOP STOP STOP STOP STOP	OWNESSHIP AND USE OF DOCUMENTS A develop, spediocotine of opper hand in amount to a control, spediocotine of opper hand in a control of the special of the s
JOB No. 10-0018 DRAWING DATE: 3/30/10 DRAWING NO.	Raytheon — B08 44 Castilian Drive Goleta, CA 93117	Nitrogen Tank Replacement
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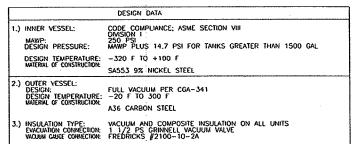


1 1/4 DIA —	1 3/4 DIA — 1 1/2 DIA — 08CD — VIEWS	/ VCS-9000 THRU VC	000 1 5/8" DIA. * 1 1/2" LONG SLOTS & 1 5/8" HOLES S-15000 2" DIA. HOLES
A	C.D. E	B.C.D	A A
B 120°	120 TYP C D	TYP.	120° C B
c c	T PAD -	D E FOOT F	PAD - E - E
VCS-525 THRU 900 A B C BCD F001 PAD VCS-525 21 1/2 10 7/8 18 3/4 3 1/4 3/8*59 1/4 VCS-900 27 1/2 13 7/8 23 15/16 55 5/8*6*11 1/4	VCS-1500	VCS-3000 AND 6000 A B C D E F BCD FOOT PAD 42 3/4 28 5/16 14 7/16 66 82 8 87 1 3/8*14*22	VCS 9000 THRU 15000 A B C D E F BCD FOOT PAD 47 30 7/16/16 9/16/36 11/16/44 11/16 8 95 3/8/1 5/8*22*22

MODE	DIMENSION DATA IN INCHES											
MODEL	A	В	C	CDI		EF		GH		J	K	
VCS-525	42	48	135	-	N/A	19 1/4	N/A	-		N/A	29 1/2	
VCS-900	54	60	142	-	21 1/2	19 1/4	21	-	-	12	37 1/2	
VCS-1500	60	66	180	-	21 1/2	19 1/2	23 1/2	-	-	13 1/2	41	
VCS-3000	84	96	192	15 9/16	19 3/8	22 3/4	32 1/4	40 1/4	12 1/2	20 3/16	60 3/4	
VCS-6000	84	96	327	15 9/16	19. 3/8	22 3/4	32 1/4	40 1/4	12 1/2	20 3/16	60 3/4	
VCS-9000	96 3/8	114	369 1/8	18 1/8	19 1/2	24 7/8	32 1/4	40 1/4	12 1/2	20 3/16	60 3/4	
VCS-11000	95 3/8	114	430 1/4	18 1/4	19 5/8	25	32 1/4	40 1/4	12 1/2	20 3/16	60 3/4	
VCS-13000	104	120	436 1/4	18 1/4	19 5/8	25	40 7/16	40 5/8	20 7/8	28 1/16	60 3/4	
VCS-15000	104	120	488	18 1/4	19 5/8	25	40 7/16	40 5/8	20 7/8	28 1/16	60 3/4	

				WEIGHTS	SHIPPING D	ATA				
MODEL		VCS-525	VCS-900	VCS-1500	VCS-3000	VCS-6000	VCS-9000	VCS-11000	VCS-13000	VCS-15000
CAPACITY	GROSS	555	967	1639	3,157	6,250	9,375	11,458	13,336	15,191
IN GALLONS	NET	500	900	1541	3,000	6,000	9,000	11,000	12,803	14,735
GASEOUS EQUIVALENT	OXYGEN	57,550	103,590	177,369	345,300	690,600	1,035,900	1,266,100	1,473,625	1,695,999
AT 0 PSIG & 70' F	NITROGEN	46,555	83,799	143,482	279,330	558,660	837,990	1,024,210	1,192,087	1,371,976
IN SCF	ARGON	56,250	10,250	173,362	337,500	675,000	1,012,500	1,237,500	1,440,337	1,657,688
WEIGHT EMPTY (SC) **		3,468	5,424	8,516	16,641	30,325	48,210	59,805	66,804	
	OXYGEN	8,232	13,999	23,199	45,222	87,487	133,953	164,602	188,779	
WEIGHT FULL (SC) ** [NITROGEN	6,841	11,495	18,910	36,876	70,795	108,915	134,000	153,161	
	ARÇON	9,283	15,891	26,438	51,531	100,105	152,880	187,735	215,703	
WEIGHT EMPTY (NC) **				T		26,270	42,337	53,200	58,647	74,503
	OXYGEN					83,432	128,080	157,997	180,622	214,883
WEIGHT FULL (NC) ** [NITROGEN					66,740	103,042	127,395	145,004	173,891
	ARGÓN			~~		99,972	147.007	181,130	207,546	245.871
MAWP IN PSI		250	250	250	250	250	250	250	250	250
SHIPPING DIMENSIONS (I	H*W*L)	51*50*137	61*62*144	67*68*182	96*98*194	10411001330	122*116*372	114*117*434	120-123-440	120'123'488

				LIN	E SIZE DATA					
LINE	FUNCTION	VCS-525	VCS-900	VCS-1500	VCS-3000	VCS-6000	VCS-9000	VCS-11000	VCS-13000	VCS-15000
Α	TOP FILL	1 PS	1 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS
В	BOTTOM FILL	1 PS	1 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS
С	AUXILARY LIQUID	_	1 PS	1 1/2 PS	1 1/2 PS	2 PS	2 PS	2 PS	2 PS	2 PS
D	GAS USE	1 PS	1 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS
£	LIQUID PHASE	1/2 OD	1/2 00	1/2 OD	1/2 00	1/2 OD	1/2 00	1/2 OD	1/2 00	1/2 00
F	VAPOR PHASE	3/8 00	3/8 OD	3/8 OD	3/8 00	3/8 OD	3/8 00	3/8 OD	3/8 OD	3/8 OD
G	FULL TRYCOCK	5/8 OD	5/8 OD	5/8 OD	5/8 00	5/8 OD	5/8 OD	5/8 00	5/8 00	5/8 OD
н	VENT	1 PS	1 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS
J	AUXILARY VAPOR	-	1 PS	1 PS	1 PS	1 P\$	1 PS	1 PS	1 PS	1 PS
К	ECONOMIZER	5/8 OD	5/8 00	5/8 OD	5/8 OD	5/8 00	5/8 OD	5/8 00	5/8 OD	5/8 00
. L	P 8 RETURN	1 PS	1 PS .	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS	1 1/2 PS



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PIPING SCHEMATIC MAR 3 1 2010 City of Goleta Planning & Environmental Sy TOP FILL
BOTTOM FILL
AUX LIQUID
GAS USE
LIQUID PHASE
F VAPPOR PHASE
G FULL TRYCOCK
H VENT
J AUX VAPOR
K ECONOMIZER
L PB RETURN

	V-1	ncv-I	VLV. GUTTOM TILL	MINULL BLOOK WALVE, MEDO #DROTIZO	1 1/2 10031	1 1/2 10001
	V-2	HCV-2	VLV, TOP FILL	ANGLE GLOBE VALVE, REGO #BK9412S	1 1/2 NOM	1 1/2 NOM
	V-3	HCV-3	VLV, PBC INLET	GLOBE VALVE, REGO #BK9404SE	1/2 NOM	1/2 NOM
	V-4	HCV-4	VLV, FULL TRYCOCK	GLOBE VALVE, REGO #BK84048E	1/2 NOM	1/2 NOM
ı	V-5	HCV-5	VLV. VACUUM GAUGE TUBE	BELLOWS SEALED VALVE, HOKE \$411L2B	1/8 MPT	1/8 FPT
	V-6	HÇV-6	VLV. EVACUATION	DIAPHRAGM VALVE, GRINNEL #015-2402-903-00M	1 1/2 NPT	1 1/2 NPT
	V-14	HCV-7	VLV, FILL LINE DRAIN	GLOBE VALVE, GODDARD #8-202	3/8 NPT	3/8 NPT
	V-8	HCV-8	VLV, LI-1 VAPOR PHASE	ANGLE VALVE, NUPRO #B4JNA2-7858	1/4 NPT	1/4 NPT
	V-7	HCV-9	VLV, LI-1 EQUALIZER	ANGLE VALVE. NUPRO #B4JNA2-7858	1/4 NPT	1/4 NPT
	V-8	HCV-10	VLV. LI-1 LIQUID PHASE	ANGLE VALVE, NUPRO #B4JNA2-7858	1/4 NPT	1/4 NPT
- 1	V-10	HCV-11	VLV. PB OUTLET	GLOBE VALVE, REGO #B-K94125E	1-1/2 NOM	1-1/2 NOM
	V-9	HCV-12	VLV, VAPOR VENT	GLOBE VALVE, REGO	1" NOM	1" NOM
	V-31	HCV 13	VLV, VAPORIZER INLET	GLOBE VALVE, REGO	1 1/2 NPT	1 1/2 NPT
	SWV	HCV-15	VLV, SAFETY RELIEF SLCTR	DIVERTER BALL VALVE, BESTOBELL #ON20	1 NPT	1 NPT
	V-19	HCV-16A	VLV. TEST	ANGLE VALVE, NUPRO #8-4JNA2-7858	1/4 NPT	1/4 NPT
	V-19	HCV-16B	VLV, TEST	ANGLE VALVE, NUPRO #8-4JNA2-7858	1/4 NPT	1/4 NPT
1	CV-1	CV-1	VLV. FILL CHECK	CHECK VALVE, POWELL \$560Y PER USS SP-80	1 1/2 NPT	1 1/2 NPT
1	SV-1	PSV-1A	SAFETY, INR VESSEL PRES	RELIEF VALVE, ROCKWOOD #RXSO 250 PSI	1/2 * 3/4	1/2 * 3/4
	SV-1	PSV-1B	SAFETY, INR VESSEL PRES	RELIEF VALVE, ROCKWOOD #RXSO 250 PSI	1/2 • 3/4	1/2 * 3/4
	SV-2	TSV-2	SAFETY, FILL LINE THERM	RELIEF VALVE, REGO #8942211300 300 PSI	1/4 NPT	1/4 NPT
	SV-2	TSV-3	SAFETY, PB CIRC THERM	RELIEF VALVE, REGO #89422N300 300 PSI	1/4 NPT	1/4 NPT
	\$V-2	TSV-4	SAFETY, PB CIRC THERM	RELIEF VALVE, REGO #89422N300 300 PSI	1/4 NPT	1/4 NPT
	S-2	S-1	STRAINER, PRESS BLDG	STRAINER, UNITED BRASS 100 MESH	1/2 NPT	1/2 NPT
	PCV-1	PCV-1	PRESS CONTROL, INR VES	REGULATOR, AW CASH #B @120 PSI	1/2 NPT	1/2 NPT
311	8 H−1	PSE-1A	RELIEF DEVICE, INR VES	RUPTURE DISC, BS&B STA-KUL	3/4 MPT	3/4 MPT
,,,,	SH-1	PSE-18	RELIEF DEVICE, INR VES	RUPTURE DISC, BS&B STA-KUL	3/4 MPT	3/4 MPT
	SH-2	PSE-3	RELIEF DEVICE, OTR VES	LIFT PLATE	6 I.D.	8 I.D.
	PB	P8C-1	PRESSURE BUILDING COIL	COIL, LARKIN #46ECS214-2-660-0012		
	Pl- 1	PI-1	PRESS INDICATOR, INR VES	PRESSURE GAUGE, NOSHOOK #40-100-400 0-400 PSI	4 DIAL	4 DIAL
	Lt 1	U-1	LEVEL INDICATOR, INR VES	DEFERENTIAL PRESSURE CAUGE, BARTON \$11-12 LOW POWER	6 DIAL	6 DIAL
	FC	FC-1	CONNECTION, FILL	CGA	1 1/2	1 1/2
	C-2	C-2	CONNECTION, AUX VAPOR	CAP BRASS	1 FPT	1 FPT
	C-1	C-1	CONNECTION, AUX LIQUID	CAP	1 1/2 NPT	N/A
	TC	VR-1	VACUUM PROBE	VACUUM PROBE, FREDRICKS @2100-10-2A	1/8 MPT	1/8 MPT
	V-12	HCV-17	VLV. ECONOMIZER	GLOBE VALVE REGO #BK8404SE	1/2 NOM	1/2 NOM
	SV-2	TSV-5	SAFETY, ECONOMIZER	RELIEF VALVE, REGO #89422N300 300 PSI	1/4 NPT	1/4 NPT
	PCV-2	PCV-2	PRESS CONTROL, ECONOMIZER	REGULATOR, AW CASH #FRM @ 140 PSI	1/4 MPT	1/4 MPT
	V-15	HCV-18	VLV, AUX LIQUID	GLOBE VALVE, GODDARD #B 222 16T		2 NPT
	CV-2	CV-2	VLV. HOUSELINE CHECK	CHECK VALVE, POWELL #560Y PER MSS SP-80		1/2 NPT
	V-3A		VLV, PB COIL INLET	GLOBE VALVE, REGO #BK9404SE		1/2 NOM
	V-18		VLV, PB COIL OUTLET	GLOBE VALVE, REGO #BK9412SE		1-1/2 NOM
			FOR 6000 GALLON VESSEL			•

DESCRIPTION

N	10858	CHGD FOOT PAD DIM, VCS-3000 &	6000	MDS	10/23/98	APPR	OVED	DATE				
M	9893	MADE UPDATES AND CORRECTIONS			1/28/97	DRAWN BY	СP	2-5-90	HEXT ASS'Y	USED ON	HEXT ASSY	FRUL ASS'
L	9277	REVISE & REDRAW, SEE OBS. FILE FOR PREV. REV.			8-7-96	CHK,D	GP	2~5~90	APPLIC	ATION	OUANTI	TY REO'D
REV.	ECO #	REVISION DESCRIPTION			DATE	PROJ. ENGR.	JR	5-5-90	4.		MVE, Inc.	
1			MAT'L			ENCR.	-	-	NEW PRAGUE, MAINESOTA 56071			
	THE MATERIALS AND INFORMATION, INCLUDING THE PRINCIPLES OF DESIGN PRESENTED BY THIS PRINT, IS THE EXCLUSIVE PROPERTY OF MYE, INC. AND IS CONTROLLING INFORMATION.						-		TITLE			
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						INTOLUES.		DRAWING NO. D-34905 REV.			REV. N	
to pr			10602080			PLACE DECIMALS 1			/4 [EQ NO			