28 42 Gas Detection and Alarm 28 42 15 - Gas Detection Sensors

			Daily	Labor-				2022 [Bare Costs	1	Total
28 42	2 15.50 Tank Leak Detection Systems	Crew	Output	Hours	Unit		Material	Labor	Equipment	Total	Incl 0&P
0010	TANK LEAK DETECTION SYSTEMS Liquid and vapor										
0100	For hydrocarbons and hazardous liquids/vapors										
0120	Controller, data acquisition, incl. printer, modem, RS232 port										
0140	24 channel, for use with all probes				Ea.		4,725			4,725	5,200
0160	9 channel, for external monitoring				Ea.		1,675			1,675	1,850
0200	Probes										
0210	Well monitoring										
0220	Liquid phase detection	1	-		Eø.	-	765		1	765	840
0230	Hydrocarbon vapor, fixed position						77.0			770 -	850
0240	Hydrocarbon vapor, float mounted						705			705	775
0250	Both liquid and vapor hydrocarbon				V		770			770	850
0300	Secondary containment, liquid phase										
0310	Pipe trench/manway sump				Ea.	1	795			795	870
0320	Double wall pipe and manual sump					i	665 :			665	730
0330	Double wall fiberglass annular space					-	475			475	525
0340	Double wall steel tank annular space				1	-	287		1	287	315
0500	Accessories										
0510	Modem, non-dedicated phone line				Ea.		370			370	40.
0600	Monitoring, internal										
0610	Automatic tank gauge, incl. overfill				Ea.		1,425			1,425	1,575
0620	Product line	1			"	1	1,500		1	1,500	1,625
0700	Monitoring, special										
0710	Cathodic protection	1			Ea.	1	810			810	890
0720	Annular space chemical monitor	i			. #	1	1,100			1,100	1,200

28 46 Fire Detection and Alarm

28 46 11 - Fire Sensors and Detectors

28 46 1	1.91	Carbon-	Monoxide	Detection	Sensors

0010	CARBON-MONOXIDE DETECTION SENSORS		4									
8400	Smoke and carbon monoxide alarm battery operated photoelectric low profile	· 1 Elec	24	.333	Ea.		57.50	22			79.50	96.50
8410	low profile photoelectric battery powered	$A: \mathbb{T}$	24	.333			45	22			67	82.50
8420	photoelectric low profile sealed lithium		24	.333			79	22			101 ;	120
8430	Photoelectric low profile sealed lithium smoke and CO with voice combo		24	.333 ;		1	55	22		1	77	93.50
8500	Carbon monoxide sensor, wall mount 1 Mod 1 relay output smoke & heat	117	24	.333			460	22	- War		482	545
8700	Carbon monoxide detector, battery operated, wall mounted		16	.500		Name of the last	45	33			78	98.50
8710 [Hardwired, wall and ceiling mounted		8	1	-	1	77.50	66			143.50 [184
8720	Duct mounted	-	8	1	No.		340	66			406	475

28 46 11.27 Other Sensors

0010	OTHER SENSORS										
5200	Smoke detector, ceiling type	1 Elec	6.20	1.290	Ea.	143	85.50		228.5	50	284
5240	Smoke detector, addressable type		6	1.333		226	88.50		314.5	50	380
5400	Duct type		3.20	2.500		310	166		476		590
5420	Duct addressable type	1 +	3.20	2.500	+ 1	190	166		356	Į	455
8300	Smoke alarm with integrated strobe light 120 V, 16DB 60 fpm flash rate	1 Elec	16	.500	Ea.	133	33	1	166		195
8310	Photoelectric smoke detector with strobe 120 V, 90 DB ceiling mount	1 1	12	.667		237	44		281	1	325
8320	120 V, 90 DB wall mount	1 +	12	.667	1 1	229	44		273	1	320
8440	Fire alarm beam detector, motorized reflective, infrared optical beam	2 Elec	1.60	10		725	660		1,385		1,775
8450	Fire alarm beam detector, motorized reflective, IR/UV optical beam	, "	1.60	10	187	1,025	660		1,685		2,100