State of California

AIR RESOURCES BOARD

Executive Order G-70-25

Relating to the Certification of the
Atlantic Richfield Balance
Phase II Vapor Recovery System

Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code Section 41954; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516;

IT IS ORDERED AND RESOLVED: That the Atlantic Richfield Balance, Phase II vapor collection and disposal system is hereby certified for attendant and/or self-serve use at gasoline service stations in conjunction with Phase I vapor recovery systems which have been certified by the Air Resources Board. The piping arrangement for the system hereby certified is described in Exhibit 1 attached. A listing of certified system components is hereby presented in Exhibit 2 attached hereto.

IT IS FURTHER ORDERED AND RESOLVED: That compliance with the applicable certification requirements and rules and regulations of the Division of Measurement Standards, the State Fire Marshal's Office, and the Division of Industrial Safety of the Department of Industrial Relations is made a condition of this certification.

IT IS FURTHER ORDERED AND RESOLVED: That the system certified hereby shall perform in actual use with the same effectiveness as the certification test system certified in Executive Order G-70-17A. Compliance with the applicable performance criterion shall be a condition of this certification, and failure to meet this criterion shall constitue grounds for revocation, suspension, or modification of this certification.

IT IS FURTHER ORDERED AND RESOLVED: That any alteration to the equipment, parts, design, or operation of the system certified hereby, is prohibited, and deemed inconsistent with this certification, unless such alteration has been approved by the undersigned.

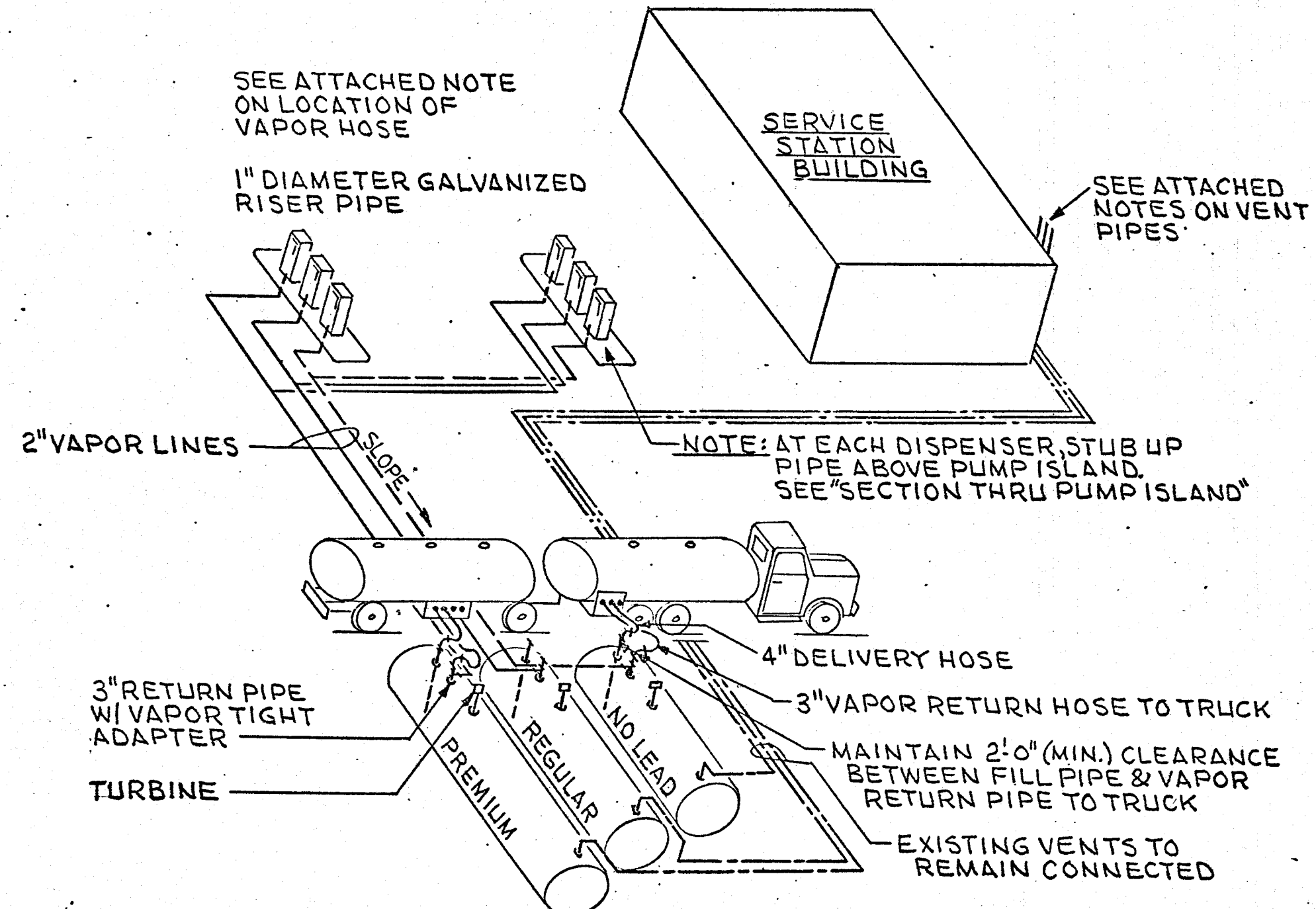
IT IS FURTHER ORDERED AND RESOLVED: That in order for vapor return hoses longer than 8 feet in length to be used, the system shall incorporate a liquid blockage detector which is acceptable to the undersigned.

Executed at Sacramento, California this 25th day of September 1978.

William H. Lewis, Jr.
Executive Officer

EXHIBIT 1

EXECUTIVE ORDER
ATLANTIC RICHFIELD COMPANY BALANCE PHASE II
VAPOR RECOVERY SYSTEM



Notes to Accompany Exhibit 1

1. Vent pipes shall be adequately supported throughout their length and when they are supporting weights in addition to their own, additional supports may be required - anchor to rear building wall.

2. Tank vent pipes two inches or less in nom. inside diameter shall not be obstructed by any device unless the tank and its associated piping & other equip. is protected to limit back pressure development to less than the max. working pressure of the tank, piping and other equip. by the inst'n of an appvd. pressure/vacuum vent, rupture disc or other venting devices inst'd in the tank vent pipes.

3. Tank vent pipes shall terminate into the open atmosphere and shall be not less than 12 feet above the adjacent ground level. The outlet shall vent upward or horizontally and located to eliminate the possibility of vapors accumulating or traveling to a source of ignition or entering adjacent buildings.

4. All vapor return & vent piping shall be provided with swing joints at the base of the riser to each dispensing unit, at each tank connection, & at base of the vent riser where it fastens to a building or other structure. When a swing joint is used in a riser containing a shear section the riser must be rigidly supported.

5. *Each vapor hose shall be located such that the center line of the hose fitting, at the recirculation trap, is not more than 3 - 1/2 inches above the top surface of the island, and as close to the surface of the island as possible.*

EXHIBIT 2

Executive Order G-70-25

Atlantic Richfield Balance

Vapor Recovery System

Component List

Item	Manufacturer and Model	State Fire Marshal Identification Number	Substitute Equipment	
			Manufacturer and Model	State Fire Marshal Identification Number
1. Nozzle	Emco Wheaton A3003 *(Extended Spout)* Vapor Recovery Nozzle	*GVRC 001:007:2*		
2. Liquid Hose	5/8 inch ID by ~~12~~ *9* feet		3/4 in by ~~13~~ *9* ft	
3. Vapor Hose	5/8 inch ID by ~~13~~ *8* feet		3/4 in by ~~13~~ *8* ft	
4. Riser	1 inch diameter Galvanized Pipe			
5. Swivels a. Nozzle b. Island	OPW 43 Single Plane OPW 36-E Double Plane 90	*GVRC 005:008:6* *GVRC 005:008:8*		
6. Flow Limiter	Emco Wheaton A-10	*GVRC 001:007:1*		
7. Recirculation Trap	Emco Wheaton A 008-001	*GVRC 001:007:4*		

Pressure Drop Through the System
(Includes Nozzle, Vapor Hoses and Underground piping)

Flow (CFH)	Δ("H_2O)
20	0.10
60	0.40
100	0.96