State of California
AIR RESOURCES BOARD

Executive Order G-70-78

Certification of E-Z Flo Nozzle Company
Rebuilt Vapor Recovery Nozzles
and Vapor Recovery Nozzle Components

WHEREAS, the Air Resources Board (the "Board") has established, pursuant to Sections 39600, 39601, and 41954 of the Health and Safety Code, certification procedures for systems designed for the control of gasoline vapor emissions during motor vehicle fueling operations ("Phase II vapor recovery systems") in its "Certification Procedures for Gasoline Vapor Recovery Systems at Service Stations", adopted March 30, 1976 and amended on August 25, 1977 and December 4, 1981 (the "Certification Procedures"), incorporated by reference in Section 94001 of Title 17, California Administrative Code;

WHEREAS, the Board has established, pursuant to Sections 39600, 39601, and 41954 of the Health and Safety Code, test procedures for determining compliance of Phase II vapor recovery systems with emission standards in its "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations", adopted on December 9, 1975 and amended on March 30, 1976, August 9, 1978, December 4, 1981 and September 1, 1982 (the "Test Procedures"), incorporated by reference in Section 94000 of Title 17, California Administrative Code;

WHEREAS, the December 4, 1981 amendments to the Certification Procedures established new performance standards for spillage and spitback losses of gasoline during vehicle fueling in Section IV-D of the Certification Procedures and became effective January 26, 1982;

WHEREAS, pursuant to Section 41956.1 of the Health and Safety Code, added by Assembly Bill 127 (Stats. 1981, ch. 902), and Section V-F of the Certification Procedures, vapor recovery systems and components thereof certified under the Certification Procedures as amended August 25, 1977 and installed prior to July 26, 1982 may be serviced with repair or replacement parts certified as meeting the standards contained in the Certification Procedures as amended August 25, 1977 for a four-year period ending July 26, 1986;

WHEREAS, the OPW Model 7V-C balance vapor recovery nozzles ("balance nozzles") have been certified under the Certification Procedures as amended August 25, 1977 and may be used as repair and replacement parts until July 26, 1986 on systems installed prior to July 26, 1982;

WHEREAS, Mr. Hank Friedman of the E-Z Flo Nozzle Company (E-Z Flo Nozzle Company, hereinafter referred to as "E-Z Flo", is a sole proprietorship owned and operated by Mr. Gary Friedman; all references herein to E-Z Flo are applicable to Mr. Gary Friedman) has applied for certification of the following:

1. E-Z Flo rebuilt OPW Model 7V-C balance nozzle for use with existing balance Phase II vapor recovery systems that use OPW Model 7V-C balance nozzles. The balance nozzle consists of an OPW Model 7V-C nozzle body and E-Z Flo manufactured components for the nozzle core and the front end of the nozzle;

2. E-Z Flo rebuilt OPW Model 7V-E vapor recovery nozzle ("assist nozzle") for use with assist Phase II vapor recovery systems that use OPW Model 7V-E assist nozzles. The assist nozzle consists of an OPW Model 7V-E nozzle body and E-Z Flo manufactured components for the nozzle core and the front end of the nozzle;

3. E-Z Flo manufactured components for the front end of OPW Models 7V-C and 7V-E vapor recovery nozzles ("manufactured components");

WHEREAS, the E-Z Flo rebuilt balance and assist nozzles and manufactured components have been evaluated pursuant to the Certification Procedures as amended August 25, 1977, and as amended December 4, 1981, in accordance with the applicable Test Procedures;

WHEREAS, Section VIII-A of the Certification Procedures provides that the Executive Officer shall issue an order of certification if he or she determines that a vapor recovery system conforms to all of the requirements set forth in Sections I through VII;

WHEREAS, I find that the E-Z Flo balance nozzles and manufactured components when used with the existing balance Phase II vapor recovery systems that use OPW Model 7V-C balance nozzles do not conform with all of the new spillage and spitback standards adopted December 4, 1981 in Section IV-D of the Certification Procedures but do conform with the requirements set forth in Sections I through VII of the Certification Procedures as amended August 25, 1977, and would result in vapor recovery systems that are at least 95 percent effective for attendant and/or self-serve use at gasoline service stations when used in conjunction with Phase I vapor recovery systems that have been certified by the Board;

WHEREAS, I find that the E-Z Flo assist nozzles and manufactured components when used with the Red Jacket Phase II vapor recovery systems conform with all the requirements set forth in Sections I through VII of the Certification Procedures as amended on December 4, 1981, and result in vapor recovery systems that are at least 95 percent effective for attendant and/or self-serve use at gasoline service stations when used in conjunction with Phase I vapor recovery systems that have been certified by the Board;

WHEREAS, I find that evaluations of E-Z Flo's production facility and the nozzles and manufactured components set forth in this Executive Order by a State Fire Marshal-approved independent inspection service agency, which evaluations include on-site inspections of the production facility, nozzles, and manufactured components at least four times per year, are necessary to ensure that E-Z Flo maintains the level of quality exhibited in its nozzles and manufactured components used in certification testing;

WHEREAS, I find that it is necessary for each E-Z Flo nozzle and manufactured component to be marked such that it is clear that the nozzles and manufactured components were rebuilt or manufactured by E-Z Flo; and

WHEREAS, I find that, consistent with Section 41956.1 of the Health and Safety Code and Executive Order G-70-77 regarding the OPW Model 7V-C balance nozzle, it is necessary to prohibit the installation of any new balance Phase II vapor recovery system using the E-Z Flo balance nozzle, to prohibit the replacement of any other nozzle except the OPW Model 7V-C balance nozzle and the E-Z Flo balance nozzle with an E-Z Flo balance nozzle, and to prohibit the use of the E-Z Flo balance nozzle after July 26, 1986.

NOW, THEREFORE, IT IS HEREBY ORDERED that the E-Z Flo Model EZC-8 balance nozzle and front end manufactured components (see Exhibit 1) for use with existing balance Phase II vapor recovery systems that use OPW Model 7V-C balance nozzles, and the E-Z Flo Model EZE-8 assist nozzle (see Exhibit 2), and front end manufactured components for Red Jacket Phase II vapor recovery systems are hereby certified subject to the following:

1. The maximum gasoline dispensing rate through the nozzles shall be 10 gallons per minute;

2. All nozzles and components shall be clearly marked as shown in Exhibits 1 and 2 so as to identify that they were provided by E-Z Flo; and

3. E-Z Flo must enter into an agreement with a State Fire Marshal-approved independent inspection service agency within 30 days after this Executive Order is issued. The agreement shall, at a minimum, provide for an initial evaluation of E-Z Flo's production facility and products certified in this Executive Order, and for quarterly on-site inspections of the product facility and products certified in this Executive Order. Initial testing must be completed within ninety (90) days after this Executive Order is issued and quarterly inspections must begin within one hundred and eighty (180) days after this Executive Order is issued.

IT IS FURTHER ORDERED that the new installation of any Phase II vapor recovery system using the E-Z Flo Model EZC-8 balance nozzle is prohibited, the replacement of any nozzle except the OPW Model 7V-C balance nozzle or the E-Z Flo Model EZC-8 balance nozzle with the E-Z Flo Model EZC-8 balance nozzle is prohibited, and the use of the E-Z Flo Model EZC-8 balance nozzle after July 26, 1986, is prohibited.

IT IS FURTHER ORDERED 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 Occupational Safety and Health of the Department of Industrial Relations is made a condition of this certification.

IT IS FURTHER ORDERED that the nozzles and manufactured components certified hereby shall perform in actual use with the same effectiveness as the certification test nozzles and manufactured components.

IT IS FURTHER ORDERED that any alteration of the equipment, parts, design, or operation of the configurations certified hereby, is prohibited, and deemed inconsistent with this certification, unless such alteration has been approved by the undersigned, or the Executive Officer's designee.

IT IS FURTHER ORDERED that the E-Z Flo nozzles shall be 100 percent performance checked at the factory including checks of proper operation in all aspects of performance.

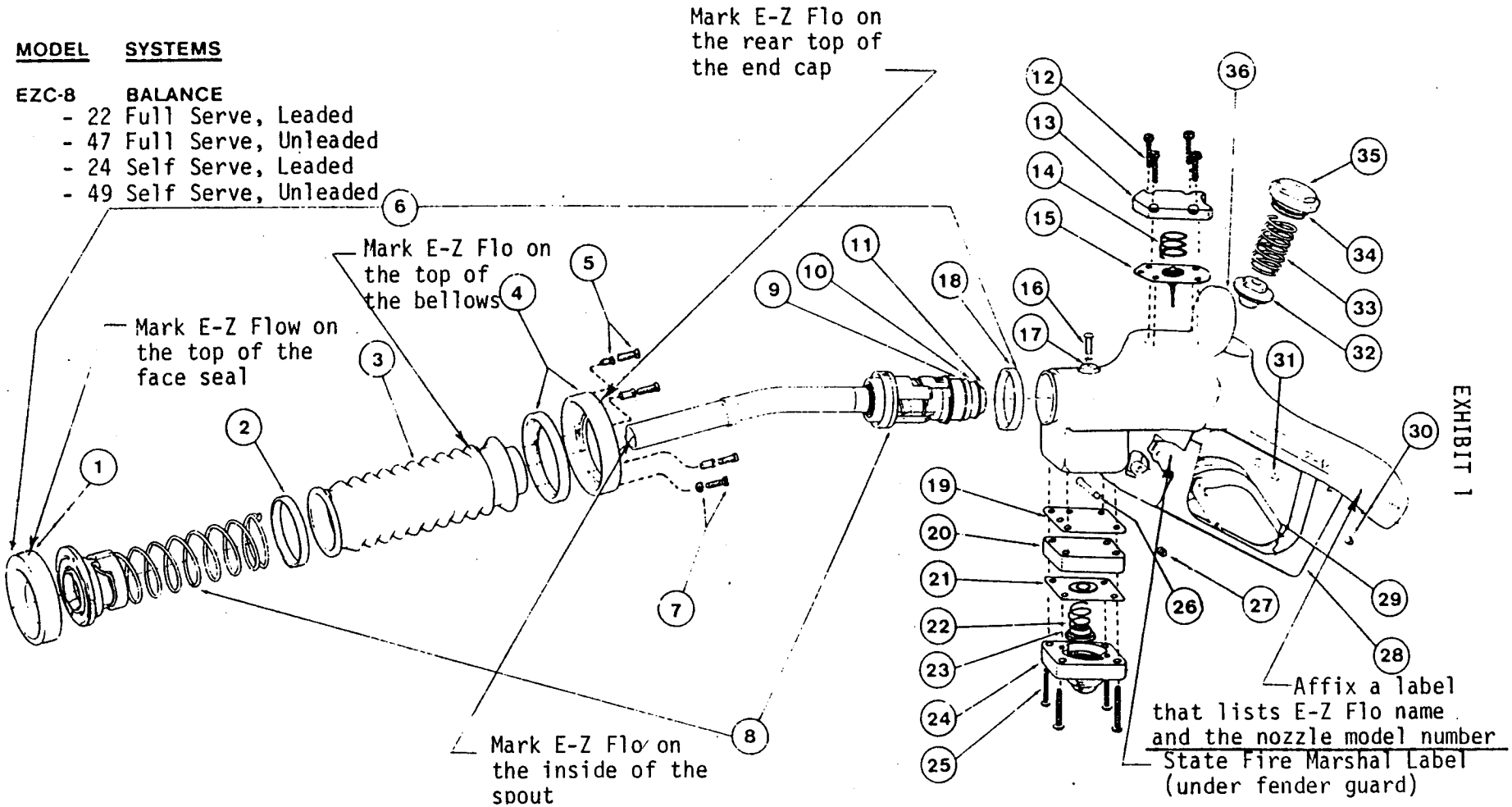
Executed at Sacramento, California this 28th day of May, 1983.

James D. Boyd
Executive Officer

E-Z FLO

7V REMANUFACTURED VAPOR RECOVERY BALANCE NOZZLE (MODEL EZC-8 47 SHOWN)

MODEL	SYSTEMS
EZC-8	BALANCE
- 22	Full Serve, Leaded
- 47	Full Serve, Unleaded
- 24	Self Serve, Leaded
- 49	Self Serve, Unleaded



1. Face Seal Kit
2. Bellow Clamp with Bridge-Large
*3. Bellow Kit Assembly
4. End Cap Assembly
5. Face Seal Screw (3)-Large
*6. Complete Front End Kit
7. Face Seal Screw (1)-Small
*8 Spout Kit Assembly
9. Check Valve O'Ring-Large
10. Check Valve O'Ring-Medium
11. Check Valve O'Ring-Small
12. Vacuum Cap Screw & Washer
13. Vacuum Cap
14. Vacuum Diaphram Spring
15. Vacuum Diaphram Assembly
16. Spout Screw 3/8"L, 1/2"L, 9/16"L
17. Spout Screw O'Ring or Gasket
18. Bellow Clamp with Bridge-Small
19. Pressure Valve Gasket
20. Pressure Valve
21. Pressure Valve Diaphram Assembly
22. Pressure Valve Spring
23. Pressure Valve Cup
24. Pressure Valve Cap
25. Pressure Valve Screws
26. Guard Pin
27. Palnut
+28. Guard Assembly
+29. Lever Assembly
30. Palnut
31. Guard Pin
32. Poppet Assembly
33. Poppet Spring
34. Poppet Cap O'Ring
35. Poppet Cap
36. Fender Guard

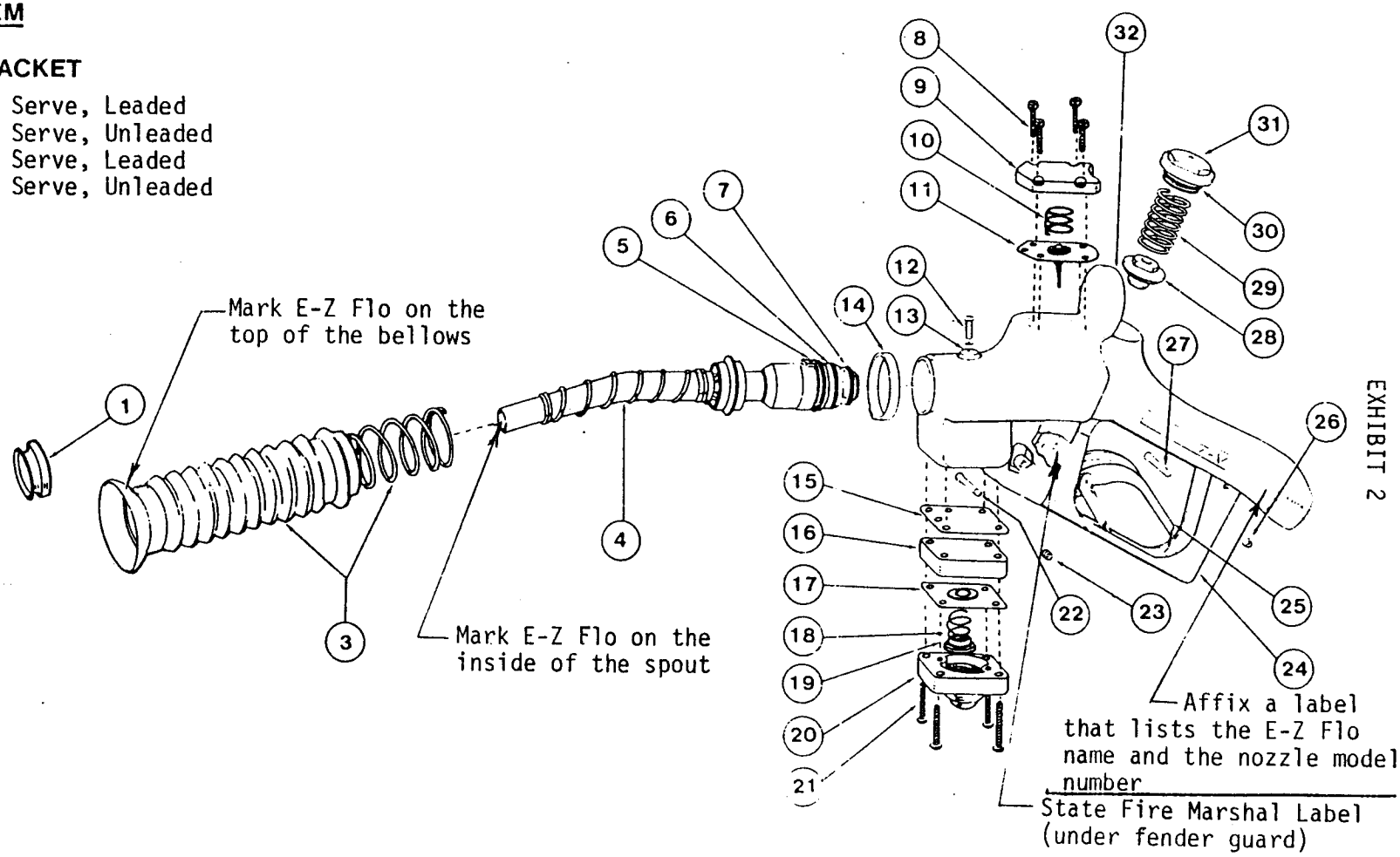
*Specify Leaded or Unleaded
+Specify Full or Self Serve

EXHIBIT 1

E-Z FLO 7V REMANUFACTURED VAPOR RECOVERY ASSIST NOZZLE (MODEL EZE-8 47 SHOWN)

MODEL	SYSTEM
EZE-8	RED JACKET

- 34 Full Serve, Leaded
- 47 Full Serve, Unleaded
- 36 Self Serve, Leaded
- 49 Self Serve, Unleaded



1. End Ring
*3. Bellow Kit Assembly
*4. Spout Kit Assembly
5. Check Valve O'Ring-Large
6. Check Valve O'Ring-Medium
7. Check Valve O'Ring-Small
8. Vacuum Cap Screw & Washer
9. Vacuum Cap
10. Vacuum Diaphram Spring
11. Vacuum Diaphram Assembly
12. Spout Screw 3/8"L, 1/2"L, 9/16"L
13. Spout Screw O'Ring or Gasket
14. Bellow Clamp with Bridge
15. Pressure Valve Gasket
16. Pressure Valve
17. Pressure Valve Diaphram Assembly
18. Pressure Valve Spring
19. Pressure Valve Cup
20. Pressure Valve Cap
21. Pressure Valve Cap Screws
22. Guard Pin
23. Palnut
†24. Guard Assembly
†25. Lever Assembly
26. Palnut
27. Guard Pin
*28. Poppet Assembly
29. Poppet Spring
30. Poppet Cap O'Ring
31. Poppet Cap
32. Fender Guard

* Specify Model or System
† Specify Full or Self Serve

EXHIBIT 2