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STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL CONTROL
P.O. Box 176 Jefferson City, MO 65102-0176

Bob Holden, Governor • Stephen M. Mahford, Director

2001 APR 19 AM 11:02

AIR POLLUTION CONTROL PGM

APR 15 2001

Mr. Stan Ponder, Area Maintenance Manager
BP Amoco Oil
400 South Woods Mill Road, Suite 250
Chesterfield, MO 63017-3427

RE: Amoco Conversion of V-1 Dresser Wayne 390-6 Vapor Assist to Balance
Dispensers

APPROVAL LETTER

2001-01

Dear Mr. Ponder:

This is to inform you of the approval of the conversion of the existing V-1 Dresser Wayne DL 390-6 Vapor Assist (VA) system dispensers to Balance Dispensers. BP Amoco submitted these dispensers for Missouri Performance Evaluation Testing Procedure (MOPTTEP) testing for Missouri approval. These dispensers were the Wayne DL 390-6, six hose V-1 VA converted to Balance configuration by the installation of a vapor manifold manufactured by Neumayer Equipment Company. The conversion manifold that was designed by BP Amoco and manufactured by Neumayer Equipment Co/United Equip Co is constructed of 1" copper, whereas the factory manifold is constructed of 3/4" aluminum. It is titled retrofit kit #V12B-DL for the DL-390, six (6) hose dispenser, #V12B-6V for the Vista six (6) hose dispenser, #V12B-2V for the Vista two (2) hose dispenser.

Due to the larger inside diameter of the Neumayer/United manifold, the backpressure exhibited by the conversion Wayne DL 390-6 dispenser is lower than that of the factory equipped dispenser. Lower backpressures generally mean higher control efficiencies in the Balance system. These dispensers were subjected to Static Leak Decay tests, component and system Wet/Dry Backpressure

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Blockage tests, and durability tests. The MOPETP testing took place at the SS #18862 Amoco station at 814 South Lindbergh, Ladue, Missouri. Four dispensers (eight sides) and 24 hoses were tested at the site.

BP Amoco has assured the Missouri Department of Natural Resources' Air Pollution Control Program (APCP) that these existing Wayne DL 390-6 dispensers will only be in use for a short period of time. Therefore, we have consented to allow these dispensers to be converted to CARB certified; MOPETP approved Balance system configuration using this Neumayer/United manifold. Furthermore, since the factory conversion manifold was unavailable and the Neumayer/United manifold showed superior results, we have approved this modification for these existing dispensers. BP Amoco has assured us that they will be changing out these existing dispensers in the near future to new MOPETP approved dispensers in their new corporate image. BP Amoco has applied for and received Underwriters Laboratories Inc. authorization to mark these retrofit items as UL approved. The UL approval letter is dated March 8, 2001, file #MH27766, project #00NK49383.

This approval only applies to BP Amoco owned or BP Amoco branded stations with existing Wayne DL-390-6 dispensers. This conversion must utilize the Neumayer/United constructed and MOPETP approved manifold with the same configuration and dimensions as those tested at this BP Amoco MOPETP site. Construction of these manifolds must meet the standards outlined in "Retrofit Installation Instructions for BP Amoco Balance Vapor Recovery System."

The APCP approves the equipment listed below, subject to the terms and conditions of approval listed on **MOPETP Approval APCP-0001-001-98**.

The average backpressures for the Wayne DL 390-6 Balance Dispenser with retrofit kit are presented in Table 1:

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Table 1. Average Dispenser Backpressure Data

	Dispenser Back pressure ("WC) – Wayne DL 390 – 6 BP Amoco Conversion to Balance Configuration Nozzle through Dispenser		
	40 cfh	60 cfh	80 cfh
Average	0.11	0.21	0.33
	Dispenser Back pressure – Dispenser Alone		
Average	0.0275	0.052	0.087

Attached please find **MOPETP Approval APCP-0001-001-98**. The APCP thanks you for your cooperation and diligence.

Sincerely,

Air Pollution Control Program



Roger D. Randolph
Director

RDR/bpl

Attachment:

c: Stage II Mail List