Pneumatic Pressure Test

Key Largo Cylinder

October 4, 2000

Prepared for:

U.S. DOT/RSPA
Office of Hazardous Materials Enforcement
U.S. Department of Transportation
400 Seventh Street S.W.
Washington D.C.  20590

October 2000

Project Name:  Key Largo Cylinder
Report No:   DC18344.000/B0F0/1000/R521
TEST DESCRIPTION

PROJECT NAME: Key Largo Cylinder
PROJECT NUMBER: DC18344
TEST DATE: October 4, 2000
TEST TYPE: Pneumatic Pressure Test
TEST ARTICLE: Scuba tank regulator valve assembly
INSTRUMENTATION: Regulator valve pressure – primary transducer
                              Regulator valve pressure – secondary transducer
PHOTOGRAPHY: 1 real-time video view of regulator valve
                        Still photographs
PROCEDURES: A scuba tank regulator valve assembly was pneumatically pressure tested. The valve was installed in the Exponent gaseous testing bunker and slowly pressurized with nitrogen. The pressure was increased by a 50 psi (nominal) step each minute until activation of the pressure relief device.

RESULTS: The pressure relief device activated at 4651 psig (primary pressure transducer reading).
PHOTO-DOCUMENTATION DATA

PROJECT NUMBER: DC18344
PROJECT NAME: Key Largo Cylinders
DATE: October 4, 2000
LOCATION: Phoenix Test & Engineering Center
PHOTOGRAPHER: Jim Smith

SUBJECT: Pneumatic Pressure Test - Post Test

KODAK Color Control Patches
Pressure v Time
Scuba Tank Regulator Valve
Pneumatic Pressure Test - 10/4/00

Key Largo Cylinder
DC18344

Primary
Secondary
Pressure v Time
Scuba Tank Regulator Valve
Pneumatic Pressure Test - 10/4/00

Key Largo Cylinder
DC18344

Primary
Secondary