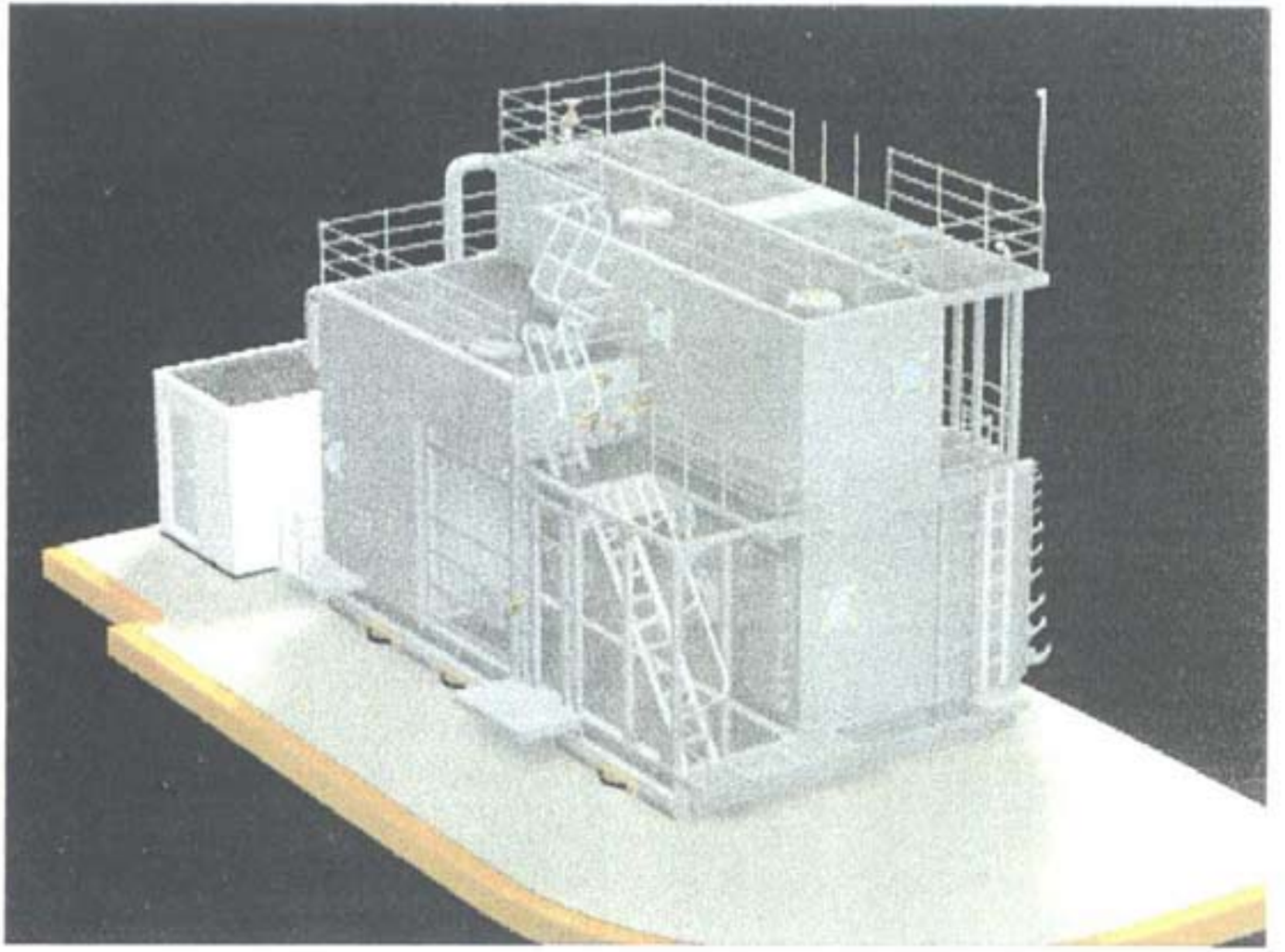
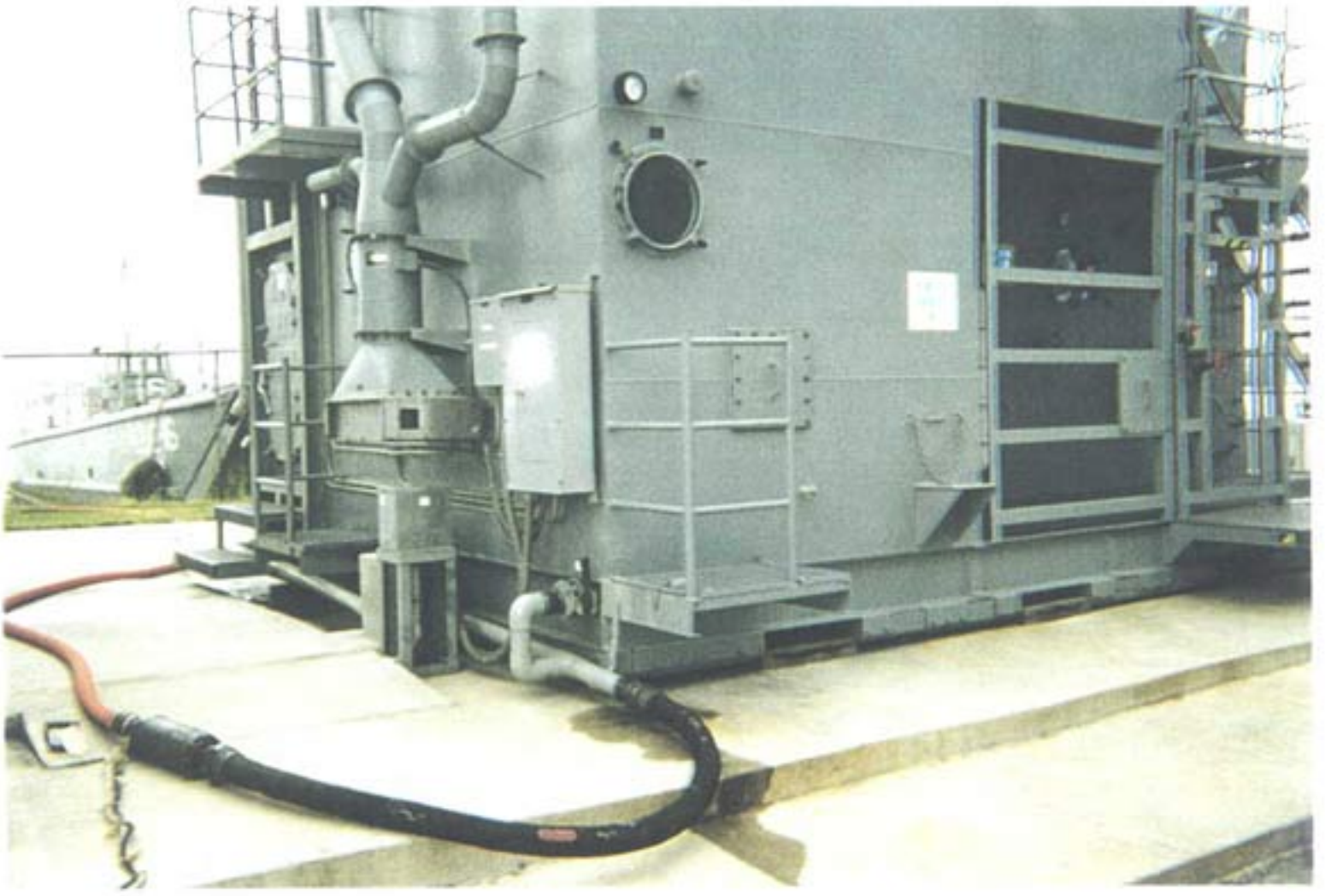
Damage Control Engineering Test Facility



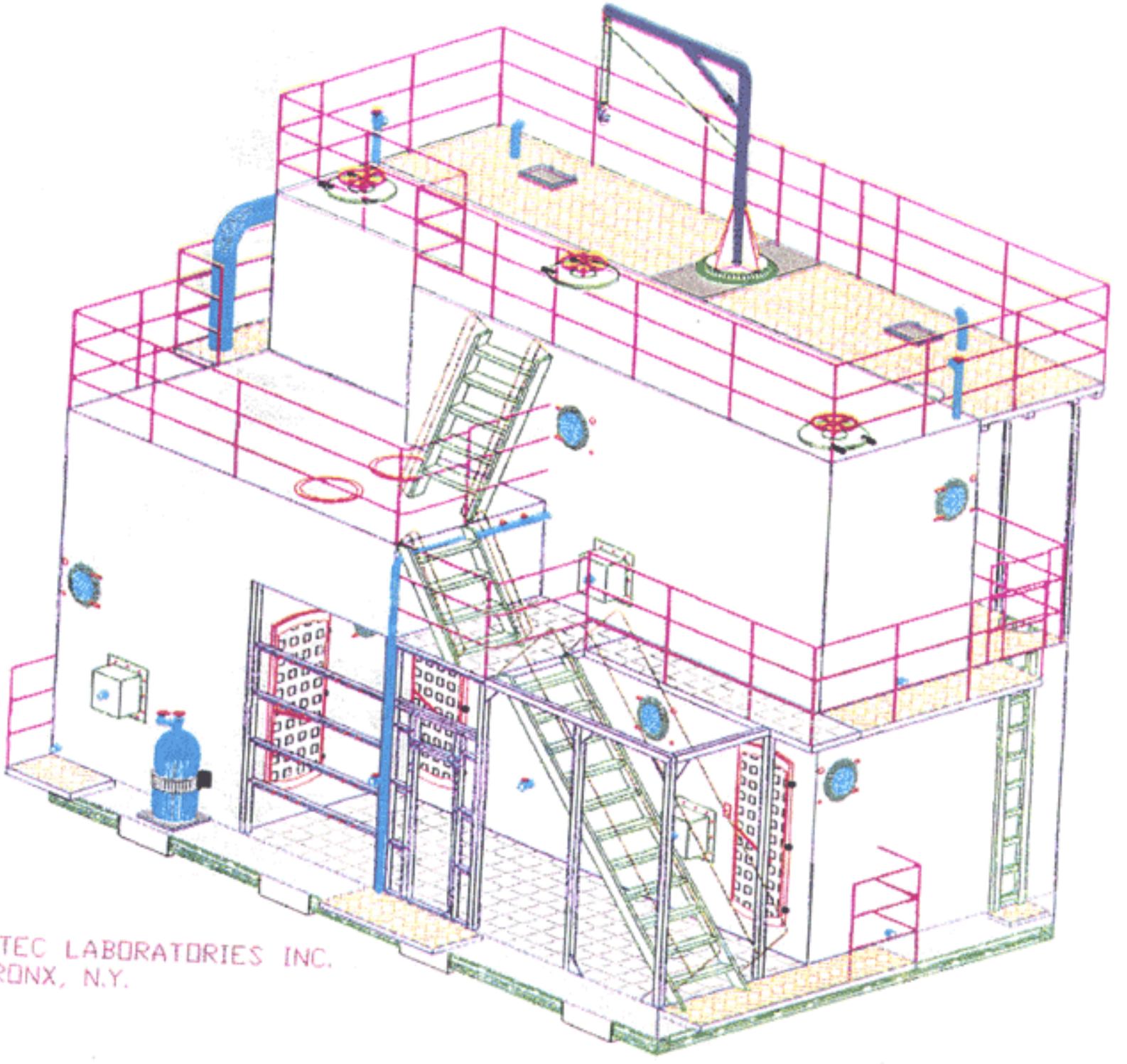


DAMAGE CONTROL ENGINEERING TEST FACILITY

The Damage Control Engineering Test Facility (DCETF) is a platform used to conduct exercises, perform tests of damage control (DC) equipment and validate and develop new DC tactical procedures. The simulated damage conditions are enhanced using heat, smoke, sound and light systems, inclination and high water impact caused by actual flooding. These simulated damage conditions require personnel to gain compartment access, conduct investigation, control flooding and pipe damage, perform hull and cable repair, as well as perform personnel rescue, control smoke spread while utilizing emergency communications.

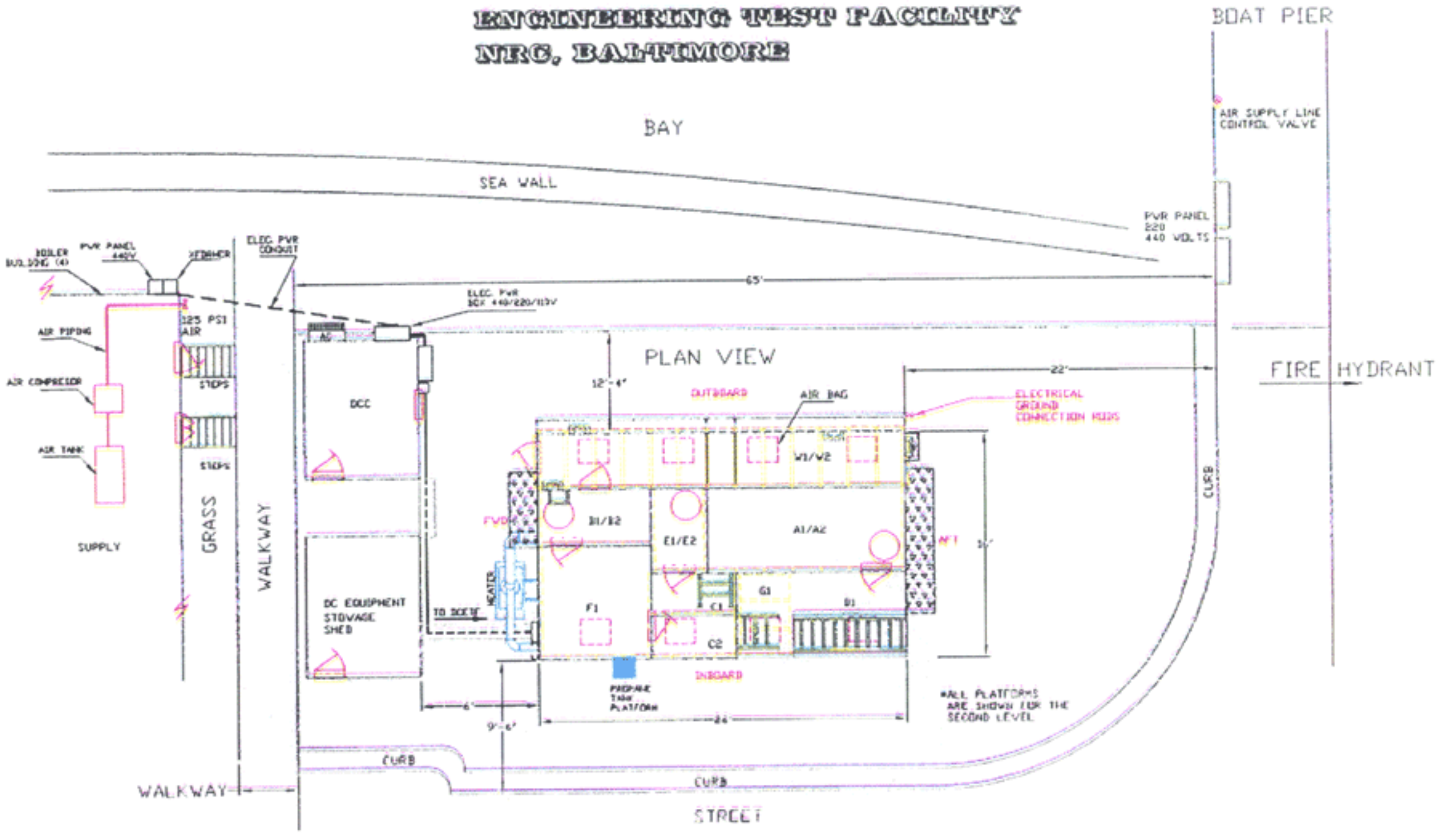
Constant updating and plotting of the damage control situation is done utilizing the Damage Control Asset Management Software (DCAMS) in Damage Control Central.

DAMAGE CONTROL ENGINEERING TEST FACILITY
NRC, BALTIMORE



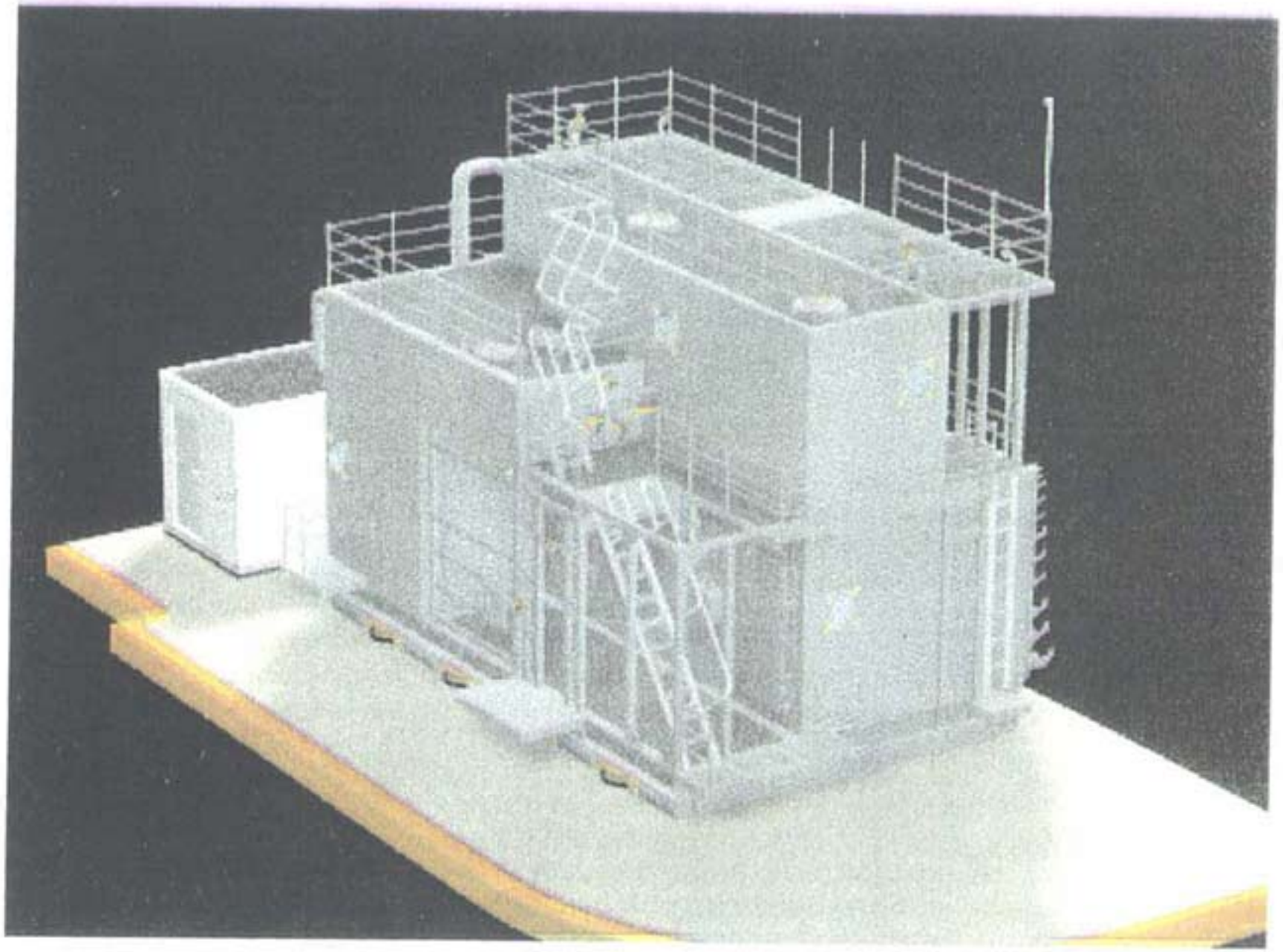
VTEC LABORATORIES INC.
BRONX, N.Y.

DAMAGE CONTROL
ENGINEERING TEST FACILITY
NRC, BALTIMORE



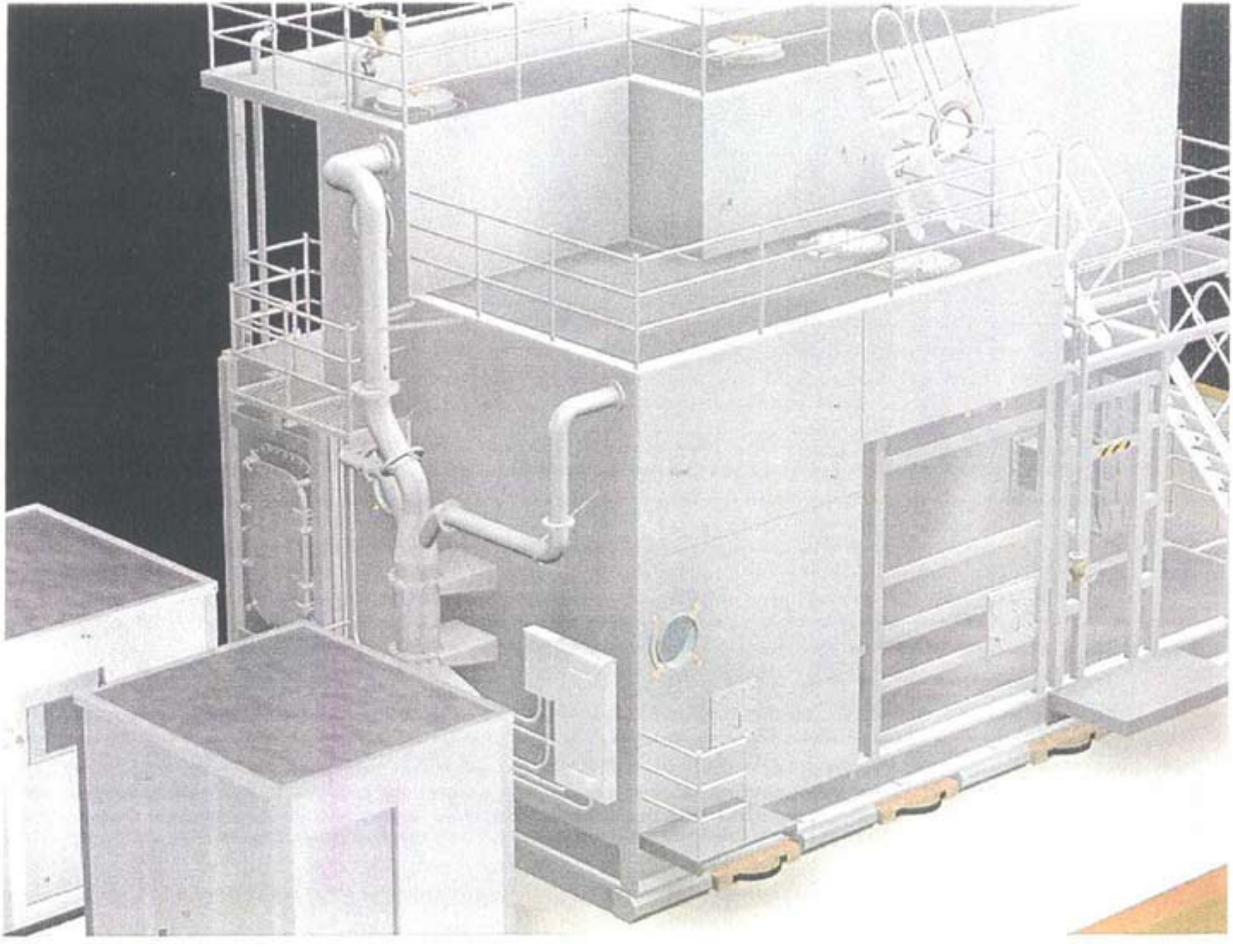
VTEC LABORATORIES, INC
BRONX N.Y.

J.N. 700-039

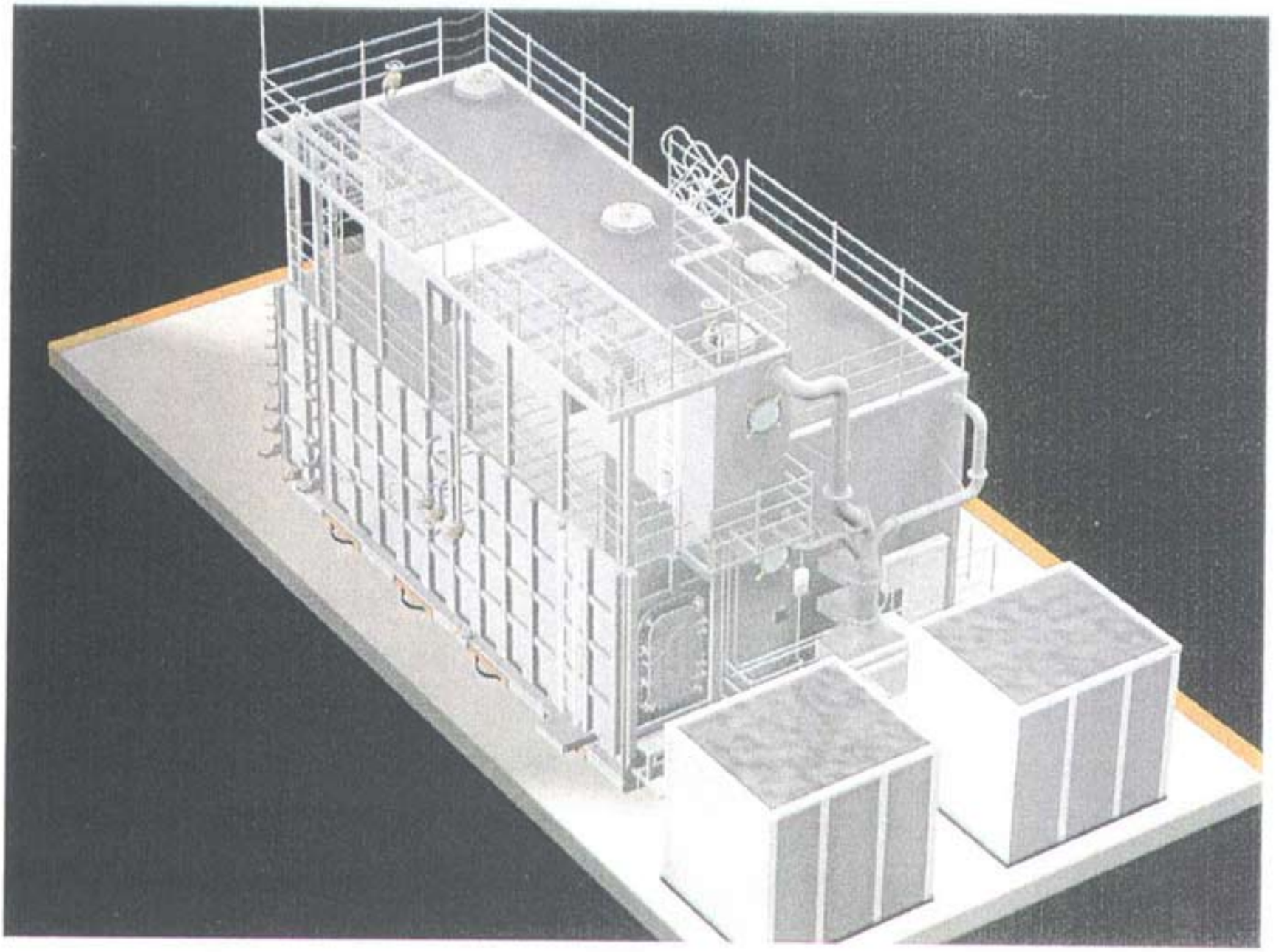


Damage Control Engineering Test Facility

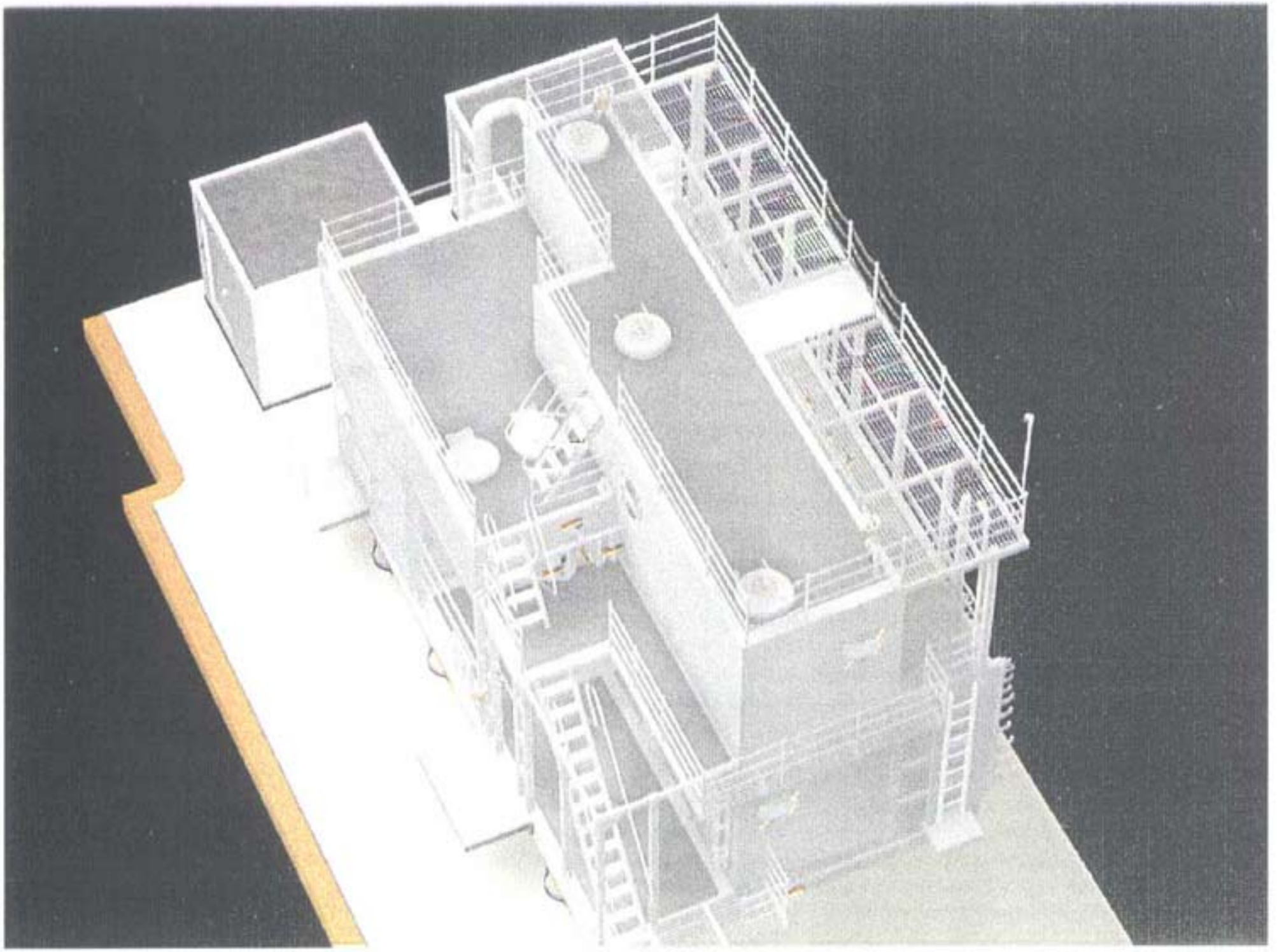
Aft - Inboard



Damage Control Engineering Facility - Forward Inboard
DCUL - Inboard & DCC - Outboard



Damage Control Engineering Facility - Forward Outboard
Outboard Bldg - DCC
Inboard Bldg - DC Unit Locker



Damage Control Engineering Test Facility
Topside Aft on Inboard Side

Firemain Rupture overhead inboard behind vent duct in Compartment B2

Lower Bulkhead Damage Inboard in Compartment B2

Lower Bulkhead Damage, Inboard in
Compartment B2

Upper Bulkhead Damage Outboard
in Compartment B2

Firemain Rupture 3" Line Inboard in
Compartment B2

REV

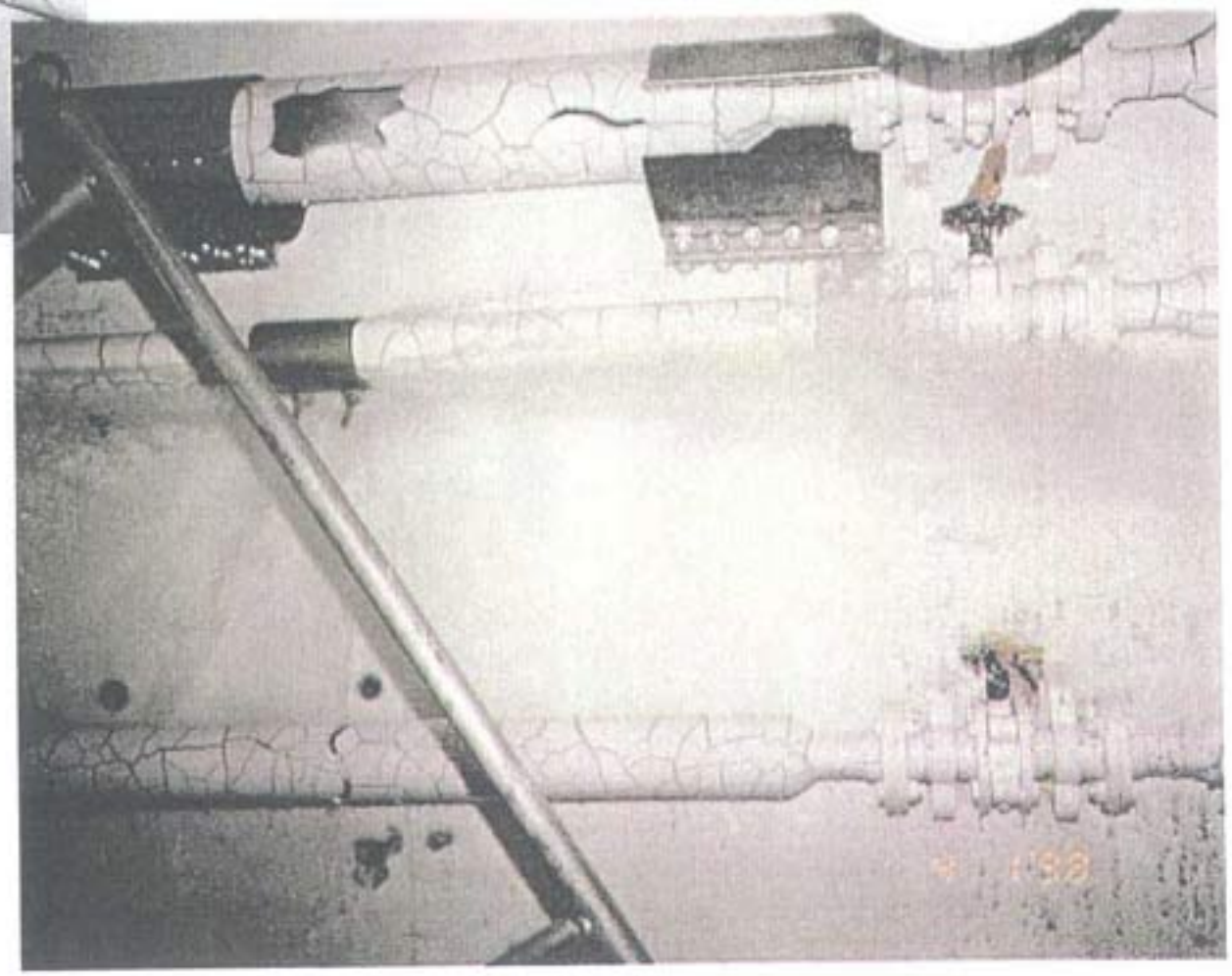
Lower bulkhead Damage Outboard
in Compartment B1

Upper Bulkhead Damage Outboard,
Behind 2" Firemain Piping in
Compartment B1

Firemain Rupture Overhead Outboard
in Compartment B1

Firemain Rupture 6" Line Forword End
Outboard in Compartment A1

Firemain Rupture 4" Line, Forward End Outboard in Compartment A1



Firemain Rupture 3" Line, Forward End, Outboard in Compartment A1

Firemain Rupture 4" Line Forward End, Outboard in Compartment A1

Firemain Rupture 3" Line Forward End, Outboard in Compartment A1

Firemain Rupture 4" Line Forward End,
Outboard in Compartment A1

Aft - Upper Outboard Bulkhead
Damage (12" Hole) in
Compartment A1

Aft - Upper Outboard Bulkhead
Damage (12" Hole) in
Compartment A2

Firemain Rupture 3" Line Forward
End, Outboard in
Compartment A1

Aft Outboard Bulkhead Damage, 1" x 9" Diagonal Hole in Compartment A2

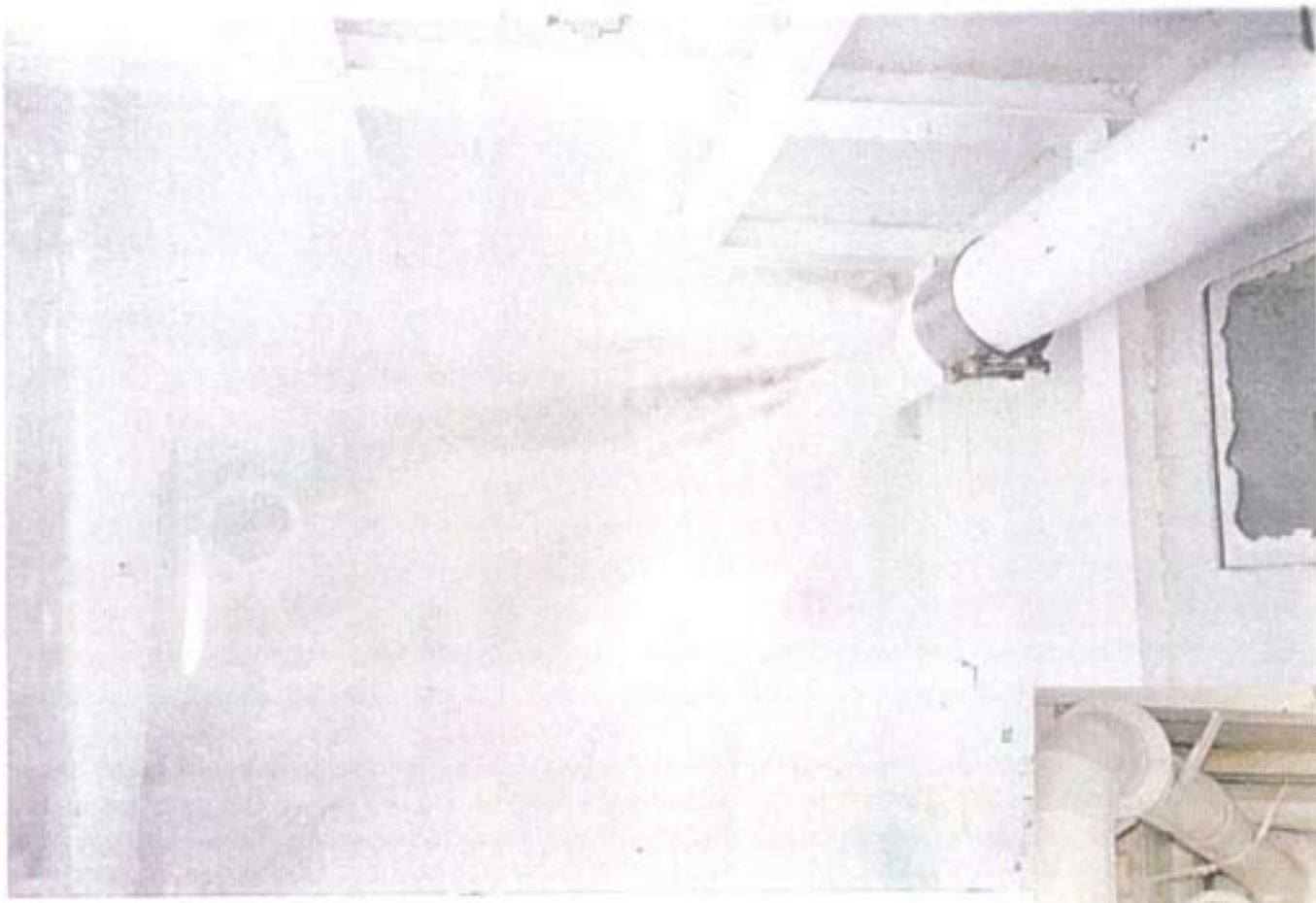
Forward Lower Outboard Bulkhead Damage (10" Hole) in Compartment A2

Aft Outboard Bulkhead Damage, 1" x 9" Diagonal Hole in Compartment A2

Forward Lower Outboard Bulkhead Damage (10" Hole) in Compartment A2

Forward Lower Outboard Bulkhead Damage (10" Hole) in Compartment A2

Inboard Bulkhead 6 Element Propane Burner for Space Heat Generation in Compartment F1

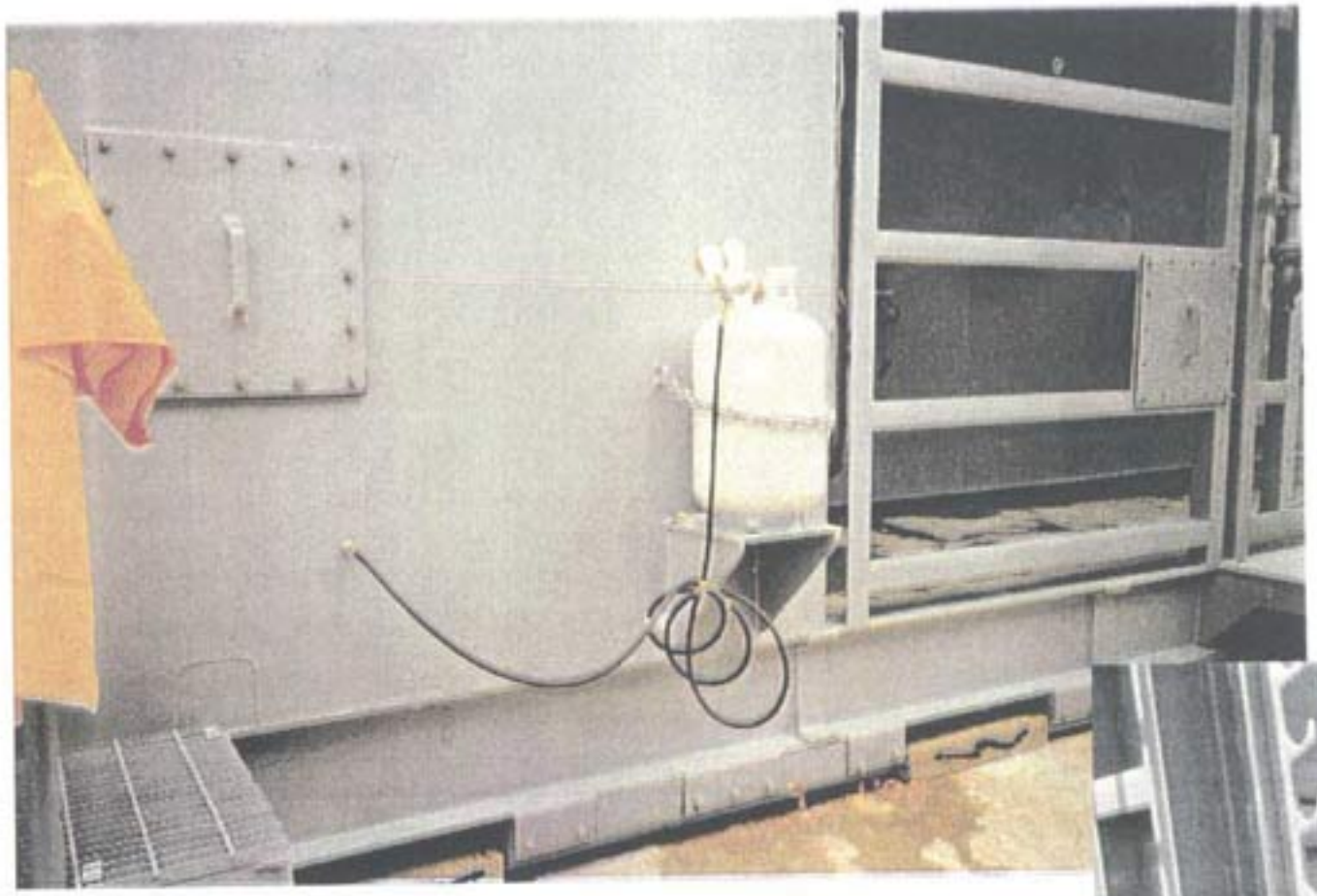


Aft Outboard 6" Firemain Rupture in Compartment A2

Aft Outboard Bulkhead Damage 1" x 9" Diagonal Hole in Compartment A2

DCETF Outboard Side
Airbag Manifold Control Station

DCETF Inboard Side, Aft



Exterior Propane Cylinder,
Compartment F1

Dual Airbags
Preliminary Test - Outboard

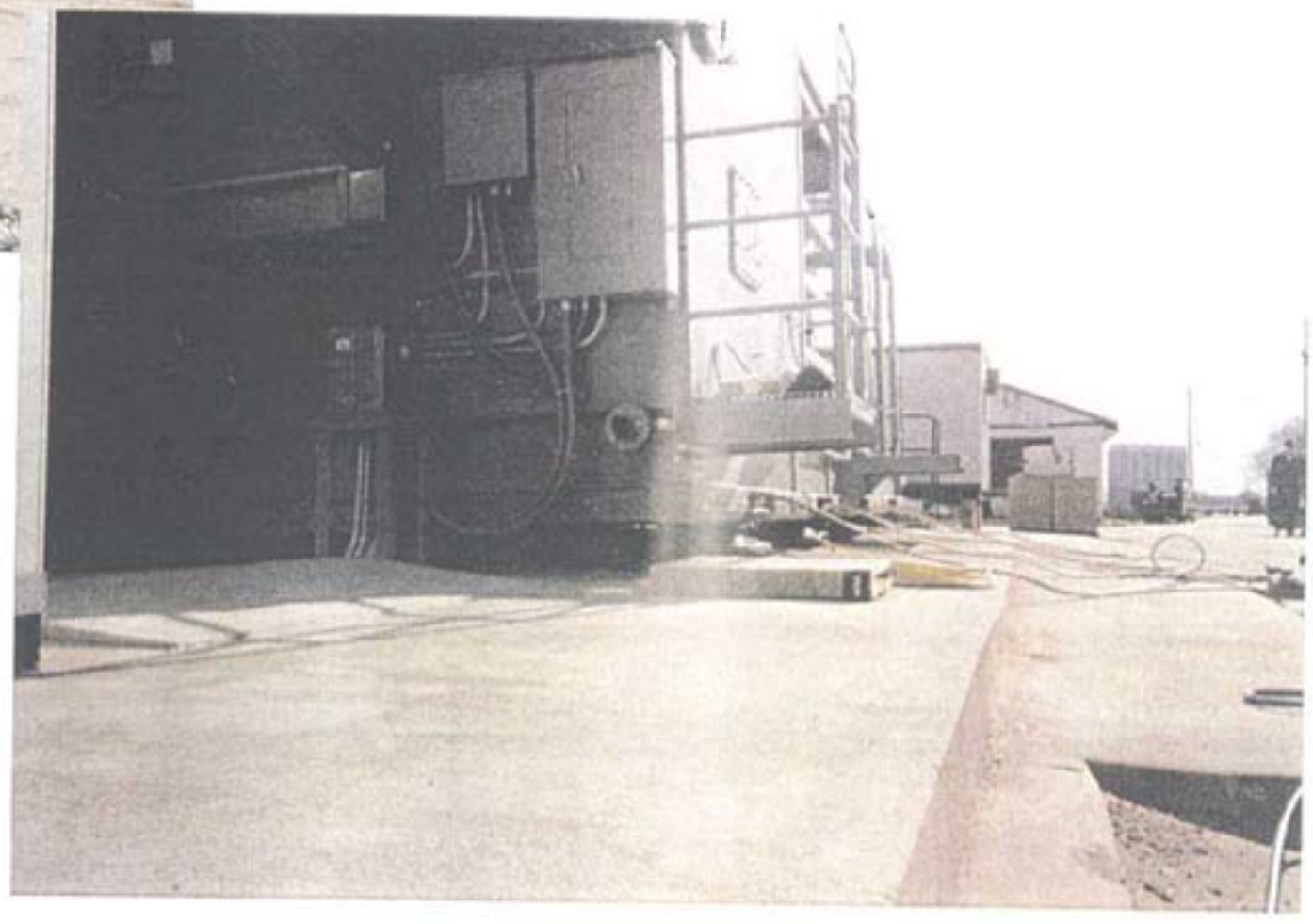
Single Airbag
Preliminary Test - Outboard

Dual Airbags
Preliminary Test - Outboard

Duel Airbags
Preliminary Test Lift 10”
Outboard Side

Dual Airbags
Preliminary Test Lift
Outboard Side

Dual Airbags
Preliminary Test Lift, Outboard



Dual Airbags
Preliminary Test Lift, Inboard
12" Lift

Dual Airbags
Preliminary Test, Inboard

Airbag Control Manifold
Outboard Test