

South Headframe –Description of Operation

The VESDA unit has a fire relay and a fault relay that is supervised by the FACP. If the VESDA unit detects smoke, the fire relay changes state generating an alarm signal. If the VESDA unit has a fault or dirty filter, the fault relay changes state, which is also supervised by the FACP, generating a trouble signal.

The VESDA unit requires 24VDC supply provided by an Edwards fire alarm control panel.

VESDA Systems	
Elevation	Description
247'	Electrical Room
281'	Elevator shaft

Suppression System

Marioff water mist suppression system are installed over lube skid in 247' lube room that contain fluids that are potentially flammable. Typically, a unistruct structure is built over the skid to support the suppression discharge nozzle and ProtectoWire for the Marioff water mist system.

The ProtectoWire is connected to an addressable Edwards releasing module. When the ProtectoWire detects heat, the releasing module activates a unique audio warning, which sounds different than the fire alarm horn/strobes, for 50 seconds before the system discharges the Marioff water mist. During this 50 second time period, the release can be aborted by pressing the abort pushbutton located on the suppression FAJB.

The system can also be released manually by pressing the release pushbutton located on the suppression FAJB. During a manual release, the horn/strobe sounds for 10 seconds before releasing. During this 10 second time period, the release can be aborted by pressing the abort pushbutton located on the suppression FAJB or on the remote push button FAJB located near the stairwell.

The automatic and manual releasing times can be programmed as follows:

Automatic: 10, 20, 30, 40, 50 (default)

Manual: 10 (default), 20, 30

The releasing module requires 24VDC supply, provided by FACP. The power supply has a trouble contact that changes state when 120VAC supply is lost, battery failure, or circuit board failure signals a trouble signal at the FACP.

Suppression Systems	
Elevation	Description
247'	Koepe Sub-foundation Marioff water mist suppression System for Lube skid