Use Case 5: Training Session

Summary:

Supervisor has established and activated training mode at trainee's console. Trainee is subjected to simulated operational environment and must utilize his skills at interacting with the DMS in order to effect efficient and secure operation of the (simulated) distribution system.

Actor(s):

Name	Role description
Trainee	Has primary responsibility for interacting with the system, operationally, in order to effect the desired responses to simulated stimuli.
Training Supervisor	Fulfilling his role as the person responsible for activating and supervising training sessions, which utilize a simulation of the DMS as well as the distribution network environment, in order to train distribution operators.

Participating Systems:

System	Services or information provided
Distribution Management System	Provides the complete operational environment for the training session
External Systems; e.g., GIS, CIS, SCADA, etc.	External data set, environment, etc., to be utilized in training session.

Pre-conditions:

DMS must be fully operational and must include an Operator Training Simulator (OTS).

Assumptions / Design Considerations:

- DMS must have sufficient resources to support an active OTS function, which may load the system to the same extent as the real-time operational system.
- DMS must support sizable data transfers during the definition of a training session.
- Development of training session may last for several hours at a time.

Normal Sequence:

Use Case Step	Description
Trainee observes system behavior and interacts by performing control action.	Trainee selects remote control device and executes control action. Remote control device (simulated in training database) responds accordingly.
Trainee communicates with field crew (simulated) and changes status of field device in the database (training).	Trainee selects device on display and sets status (in training database) to agree with state reported by field operative.
Trainee interacts with DMS by exercising various applications in the system.	Trainee calls up display associated with Trouble Management System (or switching orders, Network Calculations, Load Forecast, Load Management,

	etc.) and exercises functionality of this Application. Simulated network model responds to stimulus and reflects changes back through training database.
Trainee finishes session.	Supervisor terminates session and returns console to operational state.

Exceptions / Alternate Sequences:

Should an emergency condition arise, requiring the use of all resources, the training supervisor may be required to terminate the training session prematurely. In this event, the system would save the simulation environment and return all equipment to its operational state.

Post-conditions:

All equipment and their status must be returned to their operational state.