



Con Edison

SF₆ Management Plan

4/9/2002

SF₆ Management Process

- ∞ Con Edison has established an SF₆ management program.
- ∞ Con Edison has established three SF₆ reclaiming centers and purchased dedicated SF₆ reclaiming carts (Dilo).
- ∞ Con Edison has developed a computerized SF₆ gas inventory system.
- ∞ All gas calls are recorded in Maximo (computer maintenance management system).

SF₆ Management Process

- ∞ Monthly SF₆ usage reports are generated for the responsible area.
- ∞ Con Edison has instituted OJT SF₆ training for all SSO working groups.

SF₆ Recycling Centers

- ∞ Con Edison's SF₆ Maintenance Management Program includes establishing three SF₆ gas recycling centers.
- ∞ All purchases of SF₆ cylinders are inventoried, identified, weighed, and leak-checked before being used.

SF₆ Recycling Centers

- ∞ After the cylinder has been used, the remaining gas is recycled into dedicated reclaiming carts and the empty cylinder is returned to the manufacturer.
- ∞ An aggressive effort will be made to repair SF₆ leaks where technically and economically feasible.
- ∞ The success of the leak repair program will reduce the amount of SF₆ purchased and released to the atmosphere.

Opportunities

- ∞ Identify all SF₆ leaks using the LIS laser imaging system.
 - Develop a strategy for leak repair where economically feasible.
 - Develop a long term replacement strategy based on SF₆ leak rates, maintenance history, spare parts availability, etc.
- ∞ To date Con Edison has converted or replaced 54 138-KV dual pressure breakers with single pressure puffers.

Opportunities

- ∞ The replacement program has reduced overall in-service inventory of SF₆ as well as reducing the amount of SF₆ emissions to the atmosphere.
- ∞ Con Edison is researching new methods to economically repair SF₆ leaks. For example Astral Technologies using epoxy resin systems presently used on natural gas distribution system.

SF₆ Memorandum of Understanding

- ∞ Con Edison has signed a Voluntary MOU with USEPA to reduce SF₆ usage.
- ∞ The annual report on SF₆ usage was submitted to the USEPA (3/31/2000).
- ∞ Con Edison has committed to reducing emissions 5% from our base year.

Typical SF₆ Recycling Center



Control Panel DILO Recycling Cart



SF₆ Gas Consolidation



SF₆ Cylinder Storage Area



SF₆ Mini Gas Cart

