Y/DV-911

Y-12

OAK RIDGE
Y-12
PLANT

MARTIN MARIETTA

UPDATE ON THE CHLORINATED SOLVENT USAGE AT THE OAK RIDGE Y-12 PLANT

L. M. Thompson

Materials Engineering Department
Development Division

March 14, 1990

To be presented at
Solvents Coordinating Committee Meeting
Sandia National Laboratories
Albuquerque, New Mexico
March 22, 1990

Prepared by the
Oak Ridge Y-12 Plant
P.O. Box 2009, Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

Y-12 CENTRAL FILE
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MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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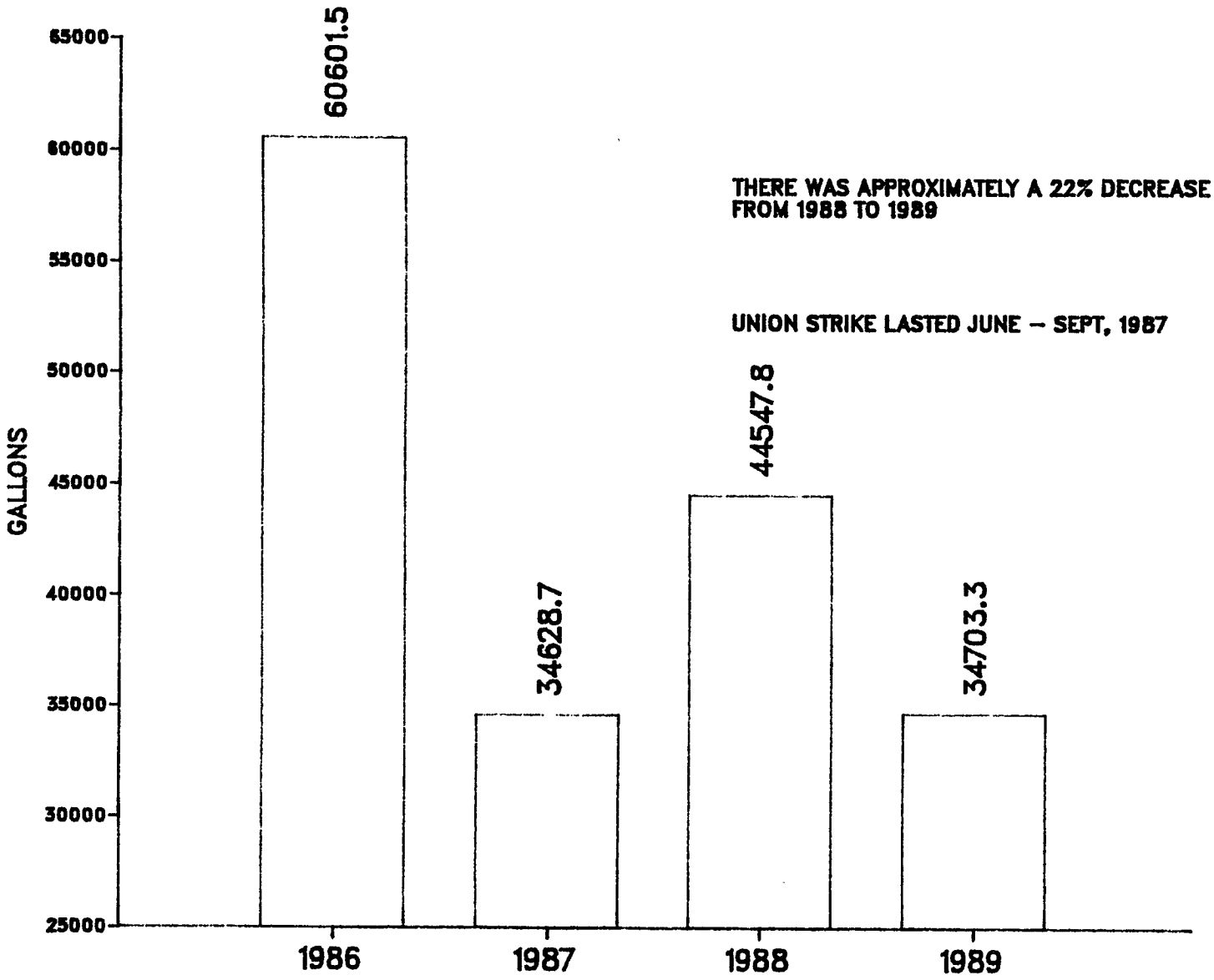
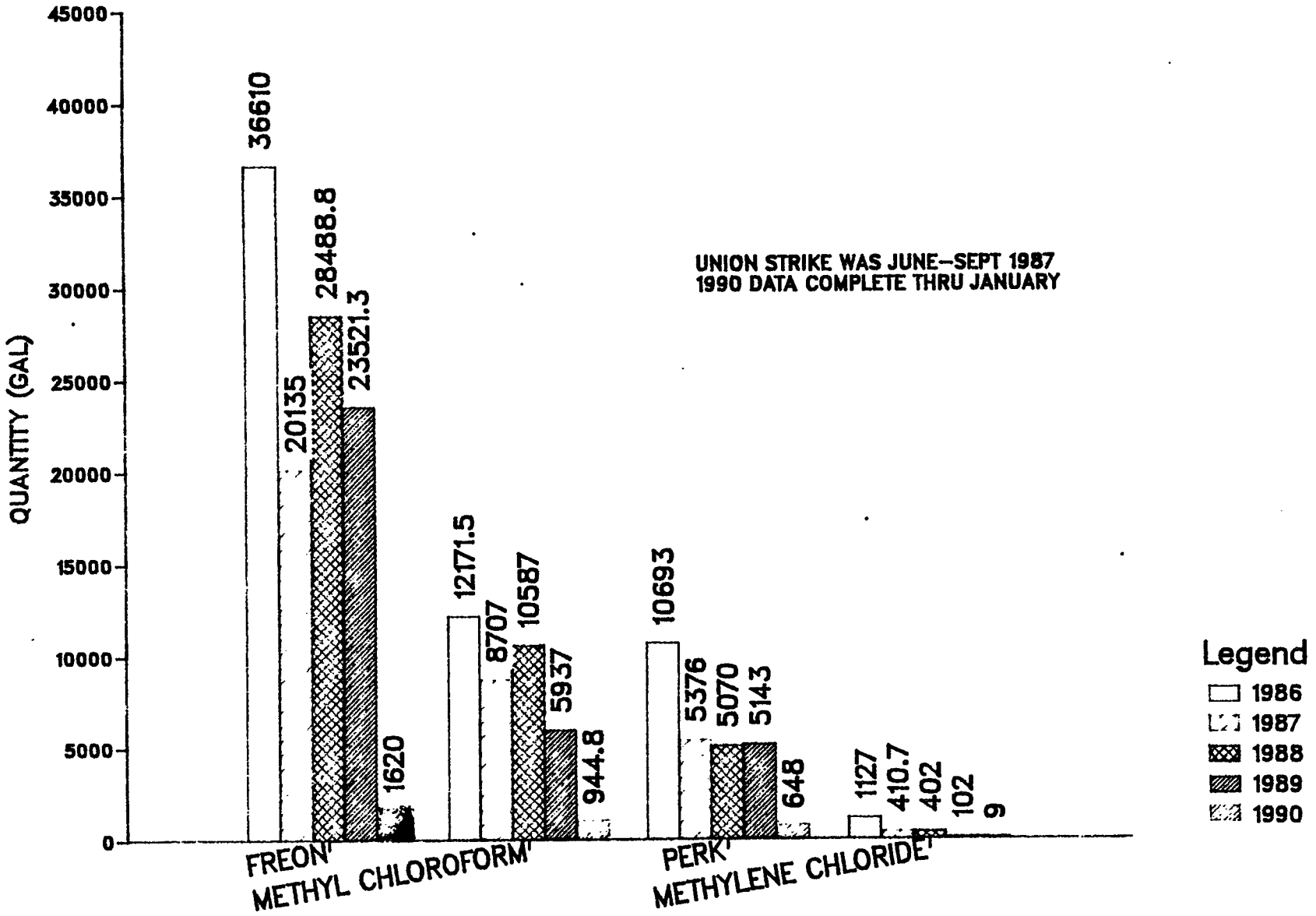
Oak Ridge Y-12 Plant
Operated by Martin Marietta Energy Systems, Inc.
for the U.S. Department of Energy
under Contract DE-AC05-84OR21400

TOTAL CHLORINATED SOLVENT USAGE AT Y-12



CHLORINATED SOLVENT USAGE AT Y-12



CHECKLIST FOR SOLVENT REPLACEMENT

Is replacement a RCRA waste?

If so, characteristic?

or listed?

Is there a method for disposal?

How would wipes be disposed?

CHECKLIST (CONT'D.)

What are the industrial hygiene concerns?

- *Is the replacement toxic?*
- *Is the replacement a suspect carcinogen?*
- *Is there adequate ventilation?*
- *Does the replacement require gloves, protective clothing, etc.?*

CHECKLIST (CONT'D.)

Is the liquid flammable?

- *What Class liquid?*
- *Does it require special storage, dispensing, explosion proof electrics, or restricted amounts in areas?*
- *Is the liquid peroxidizable?*

CHECKLIST (CONT'D.)

What are criticality requirements?

Is the amount of liquid in an area restricted?

What are environmental effects?

Does the replacement require a change in stack permits?

CHECKLIST (CONT'D.)

Does the solvent work?

- *What contaminants will have to be cleaned?*
- *How will it affect other operations such as bonding or welding?*
- *Is the solvent compatible with material on which it will be used?*
- *Is the solvent compatible with dispensing materials, gloves, wipes, etc.?*
- *Is there shelf life consideration?*

CHECKLIST (CONT'D.)

What kind of training is required for the use of the replacement?

Does the replacement require design agency approval?

Is the solvent readily available and at what cost?

Replacement of chlorinated solvents is a slow process requiring careful consideration.

Distribution:

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