Docket

April 6, 1994

Docket Nos. 50-445
and 50-446

LICENSEE: Texas Utiilities Electric Company

FACILITY: Comanche Peak Steam Electric Station, Units 1 and 2

SUBJECT: SUMMARY OF MEETING CONCERNING SPENT FUEL STORAGE FOR COMANCHE PEAK STEAM ELECTRIC STATION, UNITS 1 AND 2 (TAC NOS. M88920 AND M88921)

A meeting was held on March 24, 1994, to discuss TU Electric's plans concerning spent fuel storage for Comanche Peak Steam Electric Station, Units 1 and 2 (CPSES). TU Electric is currently licensed to store 1,116 fuel assemblies in two storage pools at CPSES. In order to increase the capacity of these pools, TU Electric is planning to submit a license amendment that would allow TU Electric to use higher density storage racks. TU Electric stated that this license amendment request will be submitted in Fall 1994. This amendment, if approved, would increase storage capacity to 1,289 fuel assemblies.

TU Electric also stated that they would be interested in taking credit for soluble boron in the spent fuel pool. This issue will be resolved generically by the NRC. In order for TU Electric to take credit for soluble boron in the spent fuel pool, a license amendment would be required. This would increase the total number of storage locations to 2,024; which would provide sufficient spent fuel pool storage for CPSES until about the year 2007.

The slides presented during the meeting are attached as Enclosure 1. The attendees are listed in Enclosure 2.

Original Signed By

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Project Directorate IV-2
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Office of Nuclear Reactor Regulation

Enclosures:
1. Presentation Materials
2. Attendance List

cc w/enclosures:
See next page

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*w/both enclosures

ENCLOSURE 1

COMANCHE PEAK STEAM ELECTRIC STATION

PRESENTATION TO

NUCLEAR REGULATORY COMMISSION

ON

SPENT FUEL STORAGE PLANS

MARCH 24, 1994

JIM KELLEY
FRED W. MADDEN
TU ELECTRIC

AGENDA

I. BACKGROUND

   A. CURRENT CPSES LICENSING BASIS
   B. CURRENT SPENT FUEL POOL/RACK CONFIGURATION
   C. PAST PROCUREMENT OF HIGH DENSITY, BORAFLEX RACKS
   D. INDUSTRY EXPERIENCE WITH BORAFLEX

II. SPENT FUEL DISCHARGE PROJECTIONS

III. PLAN FOR INCREMENTLY PROVIDING ADDITIONAL STORAGE

IV. LICENSING SCHEDULE

CURRENT LICENSING BASES

- 1116 FUEL ASSEMBLIES IN TWO STORAGE POOLS
- STORAGE RACKS WITH 16-IN CENTER-TO-CENTER SPACING
- RACK Keff $\leq$ 0.95 WITH UNBORATED WATER
- ONE STORAGE RACK IN EACH CONTAINMENT

CURRENT CONFIGURATION (FIGURE 1)

- 20 RACKS INSTALLED IN TWO POOLS
- 554 STORAGE LOCATIONS AVAILABLE
- 205 SPENT FUEL ASSEMBLIES STORED IN POOL NO. 1

CPSES SPENT FUEL STORAGE FOR 1993 (1RF03, FALL)

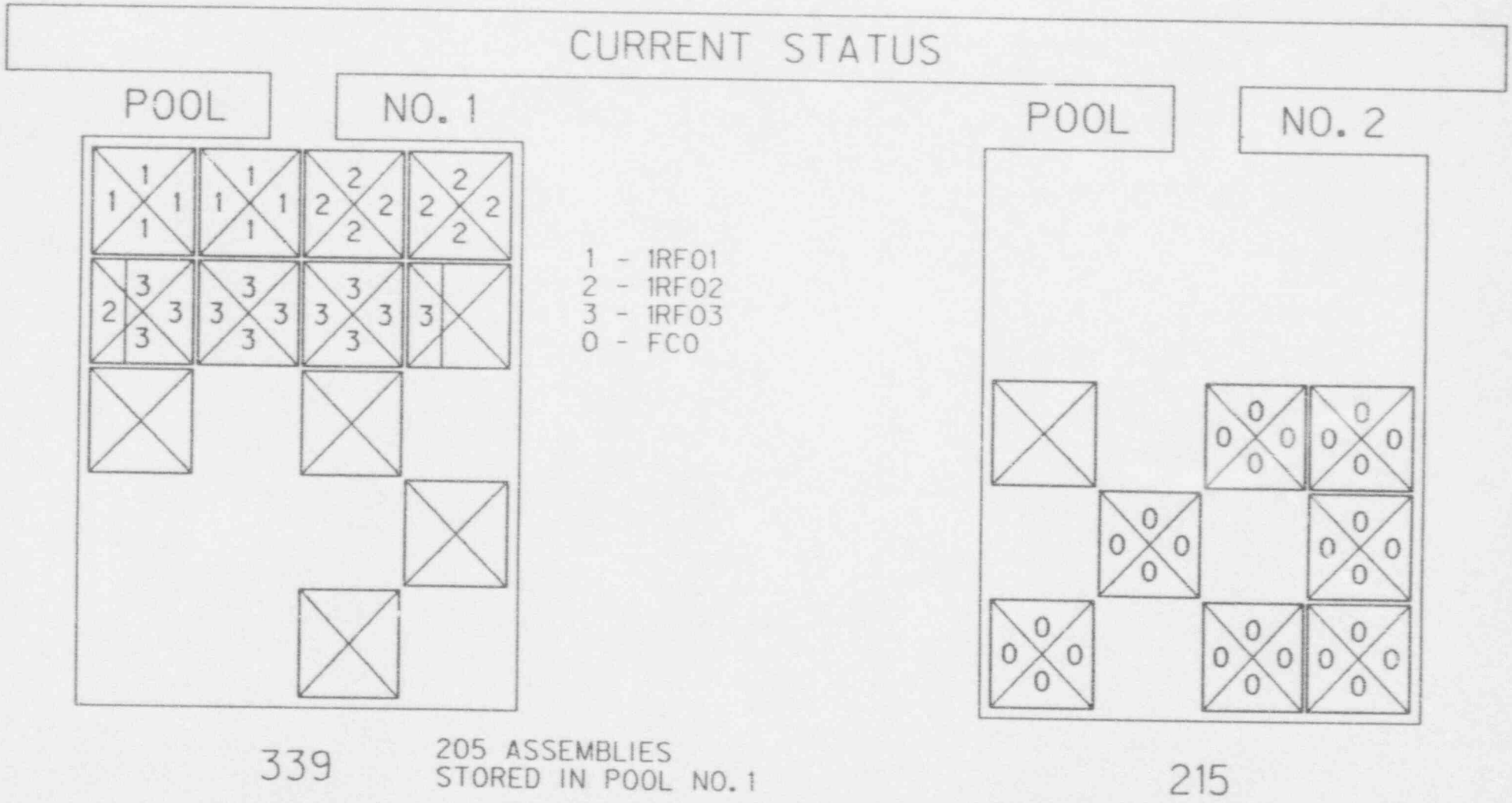


FIGURE 1

HIGH DENSITY "POISON" STORAGE RACKS

- 1984-85 PROCUREMENT OF HIGH DENSITY STORAGE RACKS
- RACKS WITH HIGH DENSITY SPACING
- NEUTRON POISON IS BORON IN THE FORM OF "BORAFLEX"
- TWO REGIONS OF HIGH DENSITY RACKS

  REGION 1 - 456 STORAGE LOCATIONS
  10.6-in. CENTER-TO-CENTER SPACING
  REGION 2 - 2940 STORAGE LOCATIONS
  9-in. CENTER-TO-CENTER SPACING

INDUSTRY EXPERIENCE WITH BORAFLEX

- BORAFLEX IS A SILICON-BASED POLYMER WITH BORON CARBIDE
- USED IN 34 SPENT FUEL POOLS
- SHRINKAGE (POSSIBLY LEADING TO TEARS) FOLLOWING HIGH GAMMA EXPOSURES
- RELEASE OF SILICA TO FUEL POOL WATER

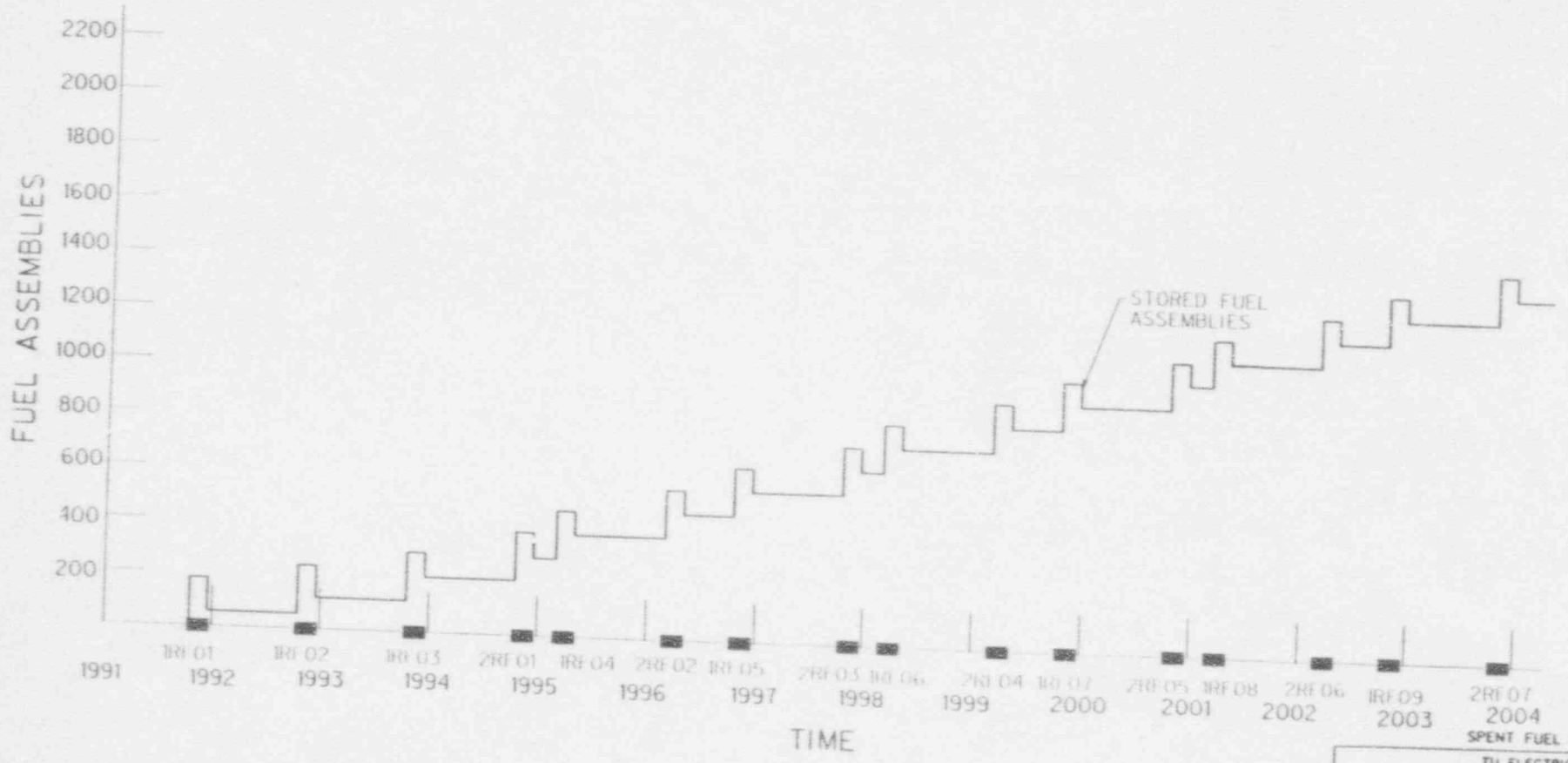


FIGURE 2

SPENT FUEL STORAGE

TU ELECTRIC
CPSES
GLEN ROSE, TEXAS

SPENT FUEL
DISCHARGE
PROJECTION

DS1393040 | 01 | REV. 1

PLAN FOR INCREMENTLY PROVIDING ADDITIONAL STORAGE

1. RELOCATE EXISTING LOW DENSITY RACKS TO POOL #1 - FIGURES 3 AND 4

2. USE TEMPORARY STORAGE RACK FOR 2RF02
   - USE ONE HIGH DENSITY RACK IN THE WET CASK PIT
   - FUEL STORED IN CHECKERBOARD ARRANGEMENT
   - RACK AVAILABLE FOR EMERGENCY FULL CORE OFFLOAD USE

3. LICENSE USE OF HIGH-DENSITY RACKS - FIGURE 5 (REGION 2 RACKS WITHOUT BORAFLEX IN A CHECKERBOARD ARRAY IN POOL #2)

4. EMPLOY WOG PROGRAM FOR SOLUBLE BORON (ALLOWS FULL UTILIZATION OF REGION 2 HIGH DENSITY RACKS)
   - WOG PROGRAM COMPLETION IS SCHEDULED FOR AUGUST 1994

5. LONG TERM (POST-2003) OPTIONS
   - TRANSFER TO DOE
   - DRY CASK STORAGE
   - USE OF REGION 1 RACKS WITH NEW POISON
   - FURTHER RERACKING

CPSES SPENT FUEL STORAGE FOR 1995 (1RF04, SPRING)

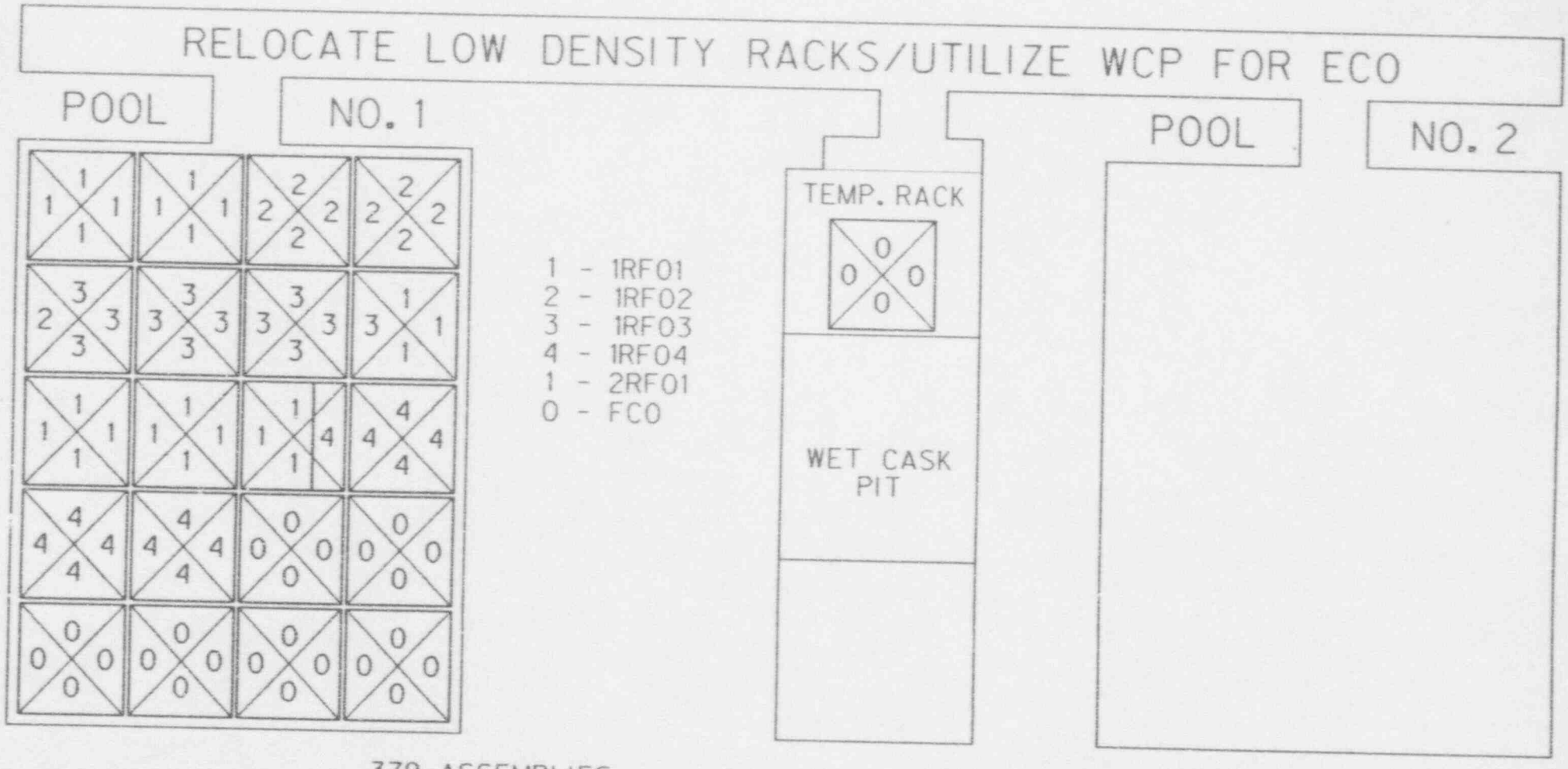
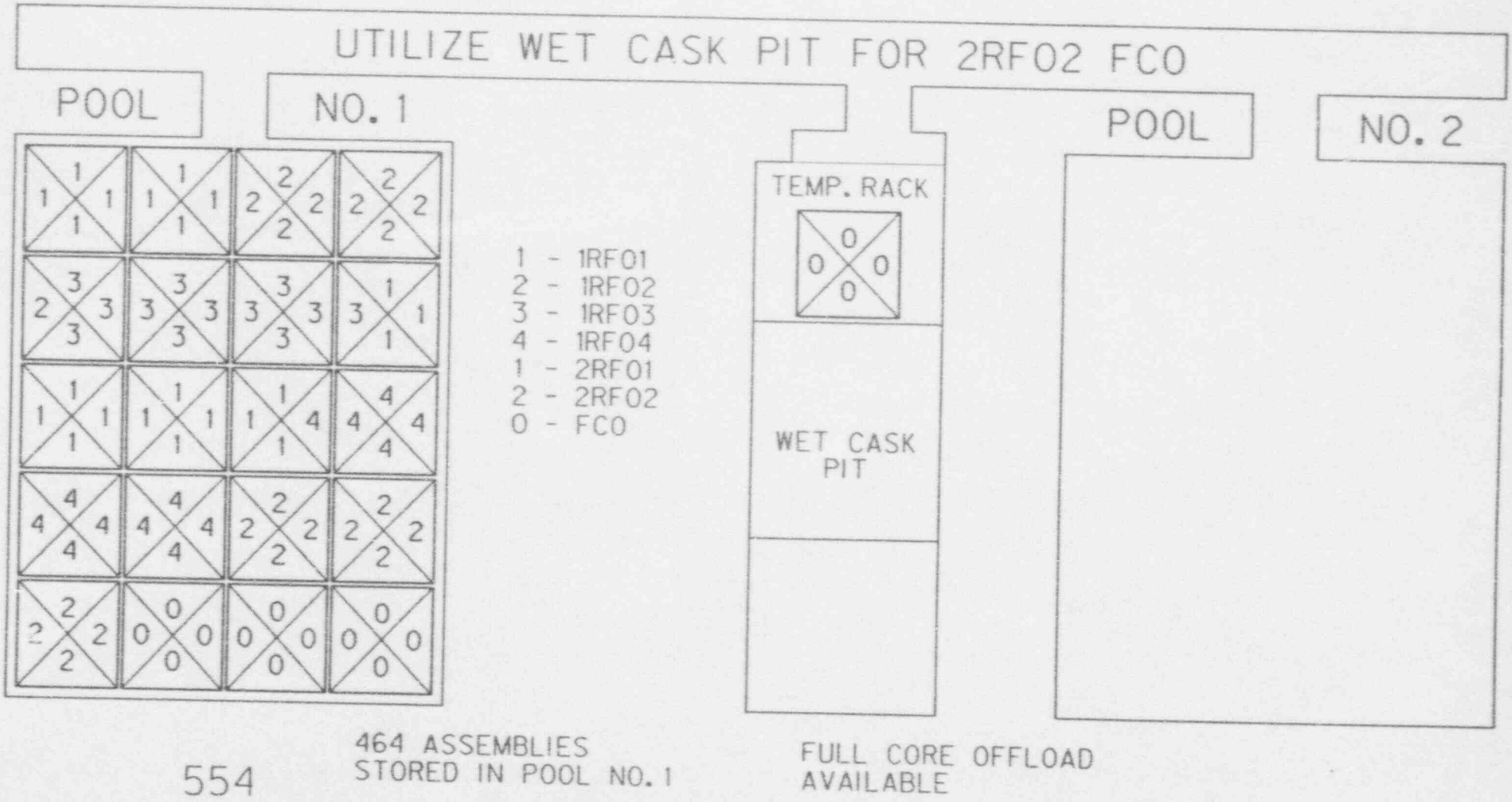


FIGURE 3

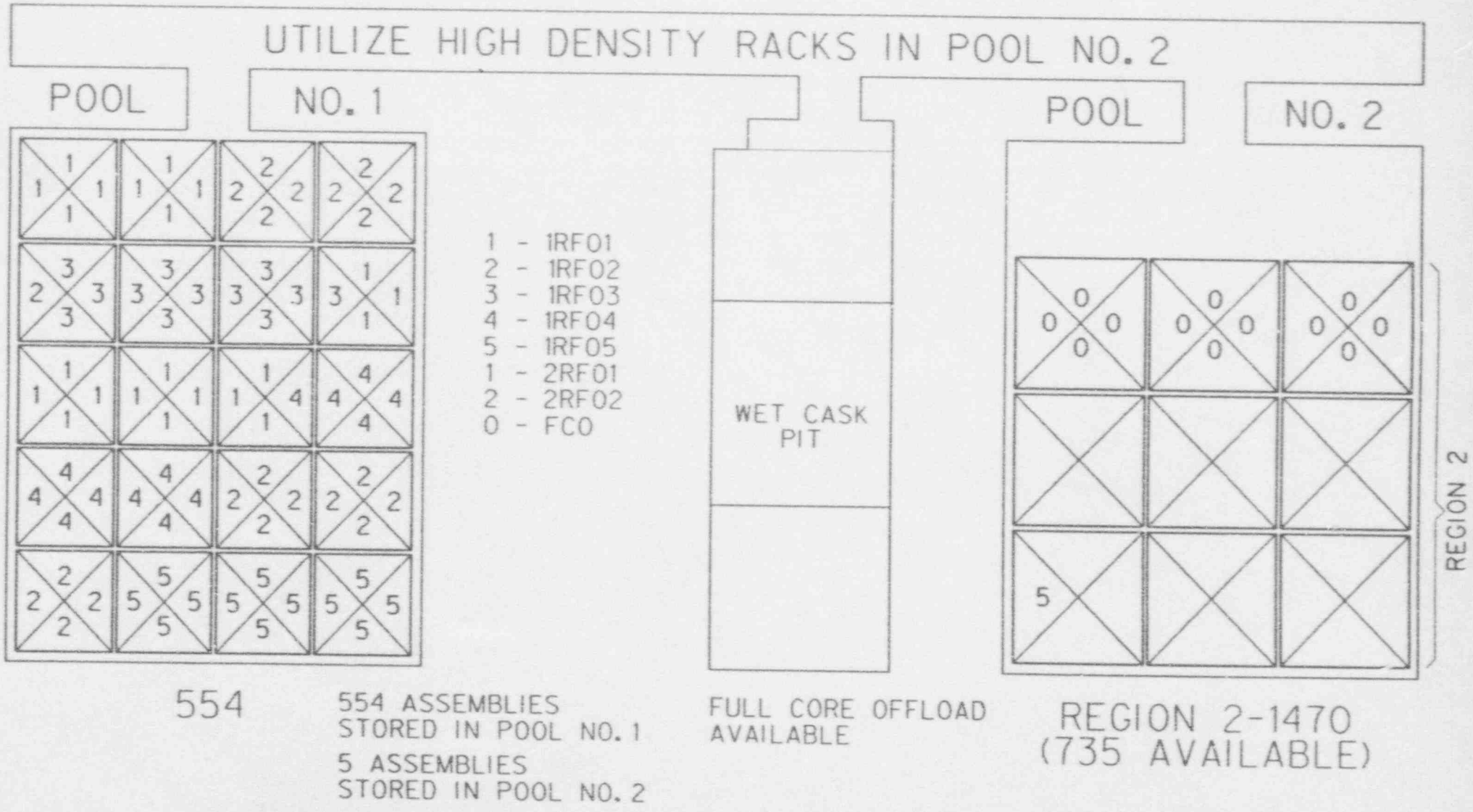
CPSES SPENT FUEL STORAGE FOR 1996 (2RF02, SPRING)



USE RACK IN WET CASK PIT OR IN-CONTAINMENT RACK FOR 2RF02 OFFLOAD.

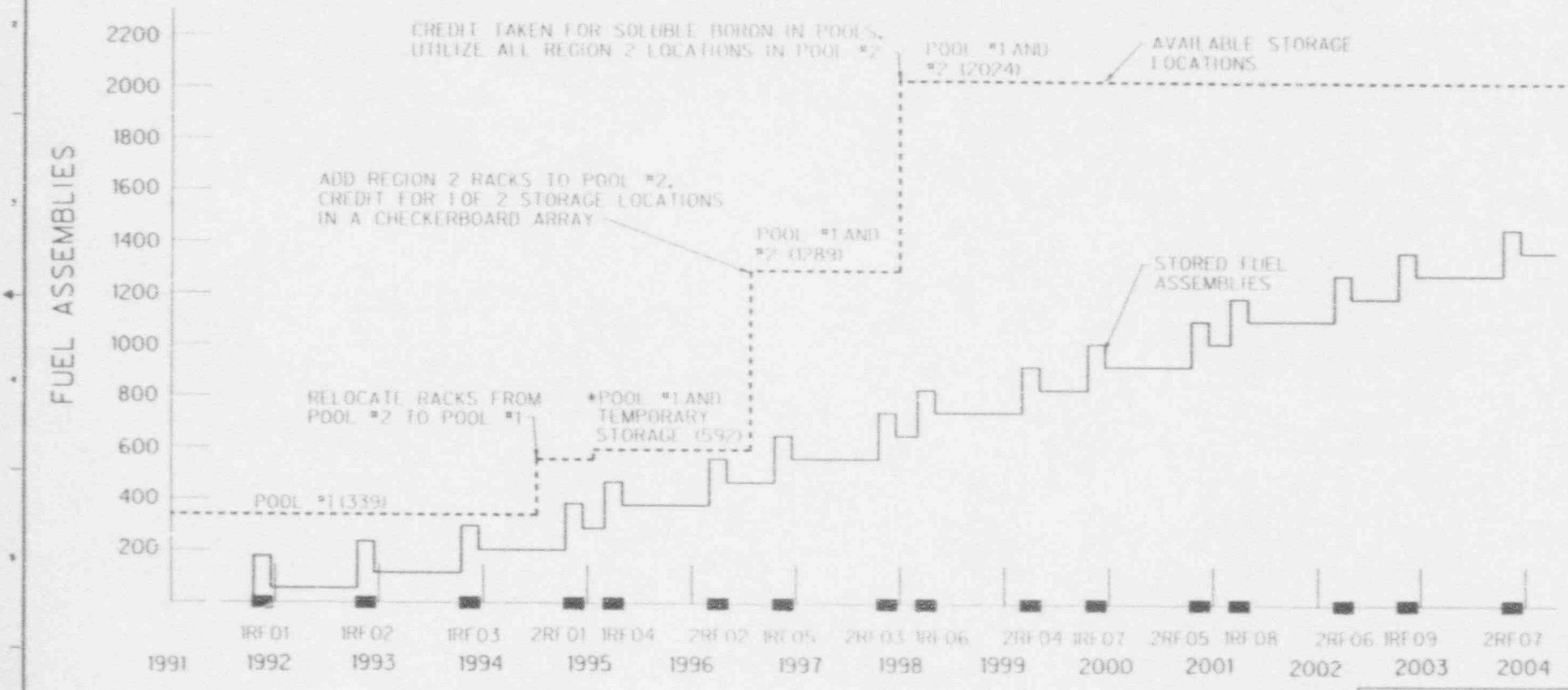
FIGURE 4

CPSES SPENT FUEL STORAGE FOR 1996 (1RF05, FALL)



INSTALL HIGH DENSITY RACKS IN POOL NO. 2 PRIOR TO 1RF05.

FIGURE 5



* PROVIDE TEMPORARY STORAGE IN THE WET CASK PIT TO MAINTAIN FULL CORE OFFLOAD CAPABILITY THRU 2RF02.

FIGURE 6

TU ELECTRIC CPSES GLEN ROSE, TEXAS	
SPENT FUEL STORAGE	
DS1393039	01 REV. 1

LICENSING SCHEDULE

LICENSE AMENDMENT SUBMITTAL - LAST QUARTER 1994

LICENSE AMENDMENT BY NRC - LAST QUARTER 1995

ENCLOSURE 2

MEETING ATTENDEES

MEETING WITH TU ELECTRIC

MARCH 24, 1994

TU ELECTRIC

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C. Corbin
F. Madden
R. Walker

NRC

T. Bergman
J. Ma
L. Kopp
L. Phillips