December 13, 2007

The attached document is an Entergy condition report documenting preliminary tritium results from groundwater wells.

Also attached is a map provided to the resident inspectors which shows the approximate location of the wells. It is an informal document provided for information only.

Ray Powell
Chief, Projects Branch 5
Division of Reactor Projects

| *Entergy* | CONDITION REPORT | CR-PNP-2007-04836 |

Originator: Sejkora,Kenneth J   X 8469

Originator Group: Tech Chemistry Staff

Supervisor Name: McElhinney,Thomas F

Discovered Date: 12/03/2007 14:30

Originator Phone: 8469

Operability Required: N

Reportability Required: N

Initiated Date: 12/03/2007 14:34

Condition Description:

Preliminary results of tritium analyses from four groundwater wells samples on Thu:29-Nov indicates the presence of low-level tritium in 3 of the 4 wells. The maximum concentration observed in the preliminary analysis was 3192 picoCuries/Liter. The samples are being reanalyzed to validate the results. Such concentrations would be below the reporting protocol of NEI-07-07 established under the industry-wide groundwater monitoring and protection initiative.

All four wells are on-site, within the PNPS protected area, and no offsite wells are affected. No sources of drinking water are affected. and the hydraulic gradient under Pilgrim Station would transport any potential tritium into the seawater of Cape Cod Bay.

Due to the low concentrations of tritium involved. dose consequences would be much less than 0.001 millirem/year to the maximally-exposed individual.

Immediate Action Description:

Requested reanalysis of samples; notified cognizant personnel at PNPS (Licensing, RP, Chemistry, etc.); assessed potential dose impact; convened team to discuss issue in fleet phone call

Suggested Action Description:

Validate analytical results - results anticipated late Wed:05-Dec; follow fleet voluntary communication protocol based on confirmation of results; develop communication brief describing extent of problem and impact of findings.

November 2007

Discharge Canal

TOP OF

OIL STORAGE

MW-201

10C

T120A & B

Screen House

DEMIN TANK

K-3

S4

MW-204

LIQUID
NITROGEN
TRAILER

S7

Cond Tanks

LIQUID
NITROGEN
TANK

POLYMETRICS
TRAILER

K-

MW-203

UNDERGRND BOILER
FUEL OIL TANKS
T129A & B

S1

S3

E 850,419.51

S101

OXYGEN
STORAGE
FACILITY

S2

MW-4
Control Well

"C"

S13

N 345,481.55

S9

"D"

MAIN TRANS.

AUX. TRANS.

"E"

S107

60

S16

A8 BUS

SHUTDOWN
TRANS.

ABANDO
HYDROGE
STORAGE

40

"A"

70

S10

S103

30

S12   S11

S106

HEAT
EXCHANGER

T160A & B

TRAILER

E 850 347.89

LOT

FIRE BRIGADE EQUIPMENT
LOCKER/ FIREWATER PUMPHOUSE
SEE DRAWING C1149

S12