

## PRELIMINARY NOTIFICATION - NOT FOR PUBLIC DISCLOSURE

TMI-2

No: PN-NRC:I-38

Date: 3/28/79

## PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information presented is as initially received without verification or evaluation and is basically all that is known at the time of this notification. IT SHOULD BE SPECIFICALLY NOTED THAT THIS NOTIFICATION MAY CONTAIN INFORMATION THAT LATER MAY BE DETERMINED TO BE INACCURATE OR INCONSISTENT.

Facility: Three Mile Island Unit 2  
Middletown, Pennsylvania  
(Docket No. 50-320)

Subject: NUCLEAR INCIDENT AT THREE MILE ISLAND - UNIT 2

The licensee notified Region I at approximately 7:45 AM of an incident at TMI-2 which occurred at approximately 4:00 AM at 98% power when the secondary feed pumps tripped due to a feedwater polishing system problem. This resulted in a turbine trip and subsequent reactor trip on High Reactor Coolant Pressure. A combination of Feed Pump Operation and Pressurizer Relief - Steam Generator relief valve operation caused an RCS cooldown. At 1600 psig, Emergency Safeguards Actuation occurred. All ECCS components started and operated properly. Water level increased in the Pressurizer and Safety Injection was secured manually approximately 5 minutes after actuation. It was subsequently resumed. The Reactor Coolant Pumps were secured when low net positive suction head limits were approached.

About 7:00 AM, high activity was noted in the RCS Coolant Sample Lines (approximately 500 mr/hr contact readings). A Site Emergency was then declared. At approximately 7:30 AM, a General Emergency was declared based on High Radiation levels in the Reactor Building. At 8:30 AM site boundary radiation levels were reported to not be significant (less than 1 mr/hr). The source of activity was stated to be failed fuel as a result of the transient, and due to a known previous primary to secondary leak in Steam Generator B.

Contact:	D. Haverkamp	R. Keimig	E. J. Brunner	5240
	Prepared by	Ext. Section Chief	Ext. Branch Chief	E.t.

Distribution:

Dudley Thompson, Executive Officer for Operations Support, HQ  
N. C. Moseley, Director, Division of Reactor Operations Inspection, HQ  
G. Klingler, PN Coordinator

Transmitted to HQ 11:22 am 3/28/79  
(TIME)

Transmitted to Other Regions \_\_\_\_\_  
(TIME)

PRELIMINARY NOTIFICATION - NOT FOR PUBLIC DISCLOSURE

The Region RI Incident Response Center was activated at 8:10 AM and direct communications with the licensee and IE:Headquarters was established. The Response Team was dispatched at 8:45 AM and arrived at the site at 10:05 AM.

At 10:45 AM the Reactor Coolant System Pressure was being held at 1950 psig with temperature at 250°F in the cold leg. By 10:45 AM, Iodine-131 levels as high as  $1.25 \text{ E-8 uc/ml}$  and radiation levels of 3 mr/hr had been detected offsite.

There is significant media interest at the present time because of concern about potential offsite radiation/contamination. The Commonwealth of Pennsylvania and EPA have been informed. Press contacts are being made by the licensee and NRC.

INCIDENT MESSAGEFORM

CONTROL NO. C 1

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

7:50 AM Wed

Ron Warren - from site

Dome monitor believed to be saturated  
" " above

60 R/hr in 4" of lead (maybe steam  
saturated environment)  
may be 6000 R/hr

100 mr @ GM tube unshielded lower in Contain

Julio ~~off~~

Ques - fr. 90° copiers down to 80° 2 mph  
Wind Dir?

Indication of Primary Coolant leak?

Outer monitor -

Reading full scale > 100 mr/hr 365 Elev on D Ring

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C 2

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

Dubio

B Gen

Leak Primary to secondary  
Monitor came up  
Aux Bldg exh tripped  
40,000 cfm

At site boundary down wind -  $I_{131} < 6 \times 10^{-10}$

Under 859

Press Primary 1400 psi  
Temp can't tell - ~~the~~ not getting proper flow to  
Core not being cooled is a concern  
This vapor lock in loops

Hi Press Injection - 250 gpm/leg

stated our team left @ 845 to arrive at site ~ 10 AM

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_



INCIDENT MESSAGEFORM

CONTROL NO C3

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

9:03 AM

7:00 A

9:10

9:18 A

Ran Warren - maintaining open line

This had water in instr. lines

Trip <sup>cause</sup> ~~use~~ loss of feed water

Ques? Did they experience a power spike at time of incident?

Instrument Air was flooded out 'dryers full of water' are blown down once / shift

What is containment pressure? now 4 psig

Any Safety Valves open? Stm line safety are closed - appears code ~~Safety~~ not

Steam Gen level? 44% A 66% B

Any water going into Stm. Gen. isolated

Containment Spray? Not operated or actuated

How long SI operating? when Start?

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C-4

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

0920

~~0920~~ Containment drain TK 'Rulture diss' ruptured  
Kunder on with Haverkamp discussing events

0945  
Kunder

HP Ques  
Site not evac < 1 mi. on site  
Day shift people mostly at Observation  
No off site problems - are monitoring, state police  
& State involved  
Environmental - only measure a little I downwind

\* 9<sup>53</sup>/<sub>A</sub> What is primary System? Res 200000 Temp { 571° }  
TKs not right

Operating floor by Lucore 10 R/hr

Bridge Monitors - pegged

Out side by Access Hatch 100 Mv

10<sup>08</sup>/<sub>Am</sub>

Dome 6000 R/hr TKs not st.  
140 mci/cc Water PC gross BT  
I GEB East 5.25 x 10<sup>-9</sup> mci/cc  
WSW 1.24 x 10<sup>-8</sup>

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO. C 5

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

Kunder  
10<sup>15</sup>

Still injecting  
Have Primary to Secondary leak in Stm. Gen, 45% lv  
Using A Gen for cooling

10<sup>23</sup>  
10<sup>17</sup>

Note Gallina called fr. site  
Kunder took car number and will have communication  
reestablished from unit 1. Having to don mask  
and leave telephone.

9<sup>3</sup> AM  
Babba  
Marshall

Call from site

944-6623

Called from Unit 1 to

reestablish communications

Dave  
Smith, Unit 1 Operator  
10<sup>45</sup> AM

Ques? Update of RCS Temp 220° Press 19.50

10<sup>54</sup>

Don Neely manning phone  
U-2 Control room reported 10-7 air activity

10<sup>55</sup>

Higgins Trying to cool down using A 5/G using  
dumps

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C 6

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

1055

Higgins

Possible bubbles in both RC pump legs

BWST 142,000 gal  
37' left in the

Cont. pres 2 psig decreasing

Press > 400"

inlet holding line open

100 AM  
Greg Higgins

Still feeding A Gen & using dumps

Gillman

Wind Shift @ ~ 10:38 AM (may be fr. Sou

110 AM

Ventilation system isolated in Unit 2

717-944-4041

Higgins & Neely to U-2 CR using respirator

ext 203

10-7 ucr/ml unidentified I

Shift Super

Office

U-1

Nimitz

Providing  
North GEZ  
GE 1

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO.

C 7

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

North Parkers

3 Mr/hr

10 AM

Containment Base

50 Mr/hr

West corner I < 1 min detect

905

SW " GD-9 I  $5.25 \times 10^{-9}$

< 1 Mr/hr

East perimeter GE-4

~~1057 AM~~ 7 Mr/hr

WSW " GE-5

~~1104 AM~~ 2 Mr/hr

Goldsboro

I  $10^{-9}$   
I  $10^{-8}$

0900 AM

~~942 AM~~

Galena  
11:5 AM

MDA

I  $10^{-10}$

Across River

I  $10^{-9}$

11:5 AM

Primary

Using gen survey meter  
& glass bottle 11 AM

~ 200 Mr/hr

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:



INCIDENT MESSAGEFORM

CONTROL NO. C-8

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

15A  
line Primary ~ TZ w/ml

Higgins 10-7  
Ex U-12 (Vent not operating)  
Gallina (Primary Control Ct being set up in U-1)

Goldboro I 9AM South  
1.24 X 10<sup>-9</sup>

940 AM North of Town  
1.17 X 10<sup>-8</sup>

3 m/hr 11 AM Observation Ct. east of  
island down river

Galina Ventilation Stable  
I 131 17 wci/ml  
133 33 wci/ml

123 RC  
Total 130  
I. Rb. Ze.  
Ze 5 to 6

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C-9

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

Salina  
11<sup>28</sup> AM

At Aux Boiler

NE of U. 1

1100 AM

I  $1.76 \times 10^{-9}$  uci/cc

Wind Direction

GE 4 Aiv I  $2.8 \times 10^{-7}$  uci/cc

Humidity  
11<sup>11</sup> AM

1 AM Wind  $270^{\circ}$  W 1 mph  $\Delta$  to 4 mph  
now 1 mph

950 AM Wind  $\Delta$  to  $140^{\circ}$  to SE 2 mph

1105 AM Wind  $\Delta$   $270^{\circ}$  to  $90^{\circ}$  2 mph

GE-4 I east of Rx Bldg 1128 AM perimeter

$2.84 \times 10^{-7}$  uci/cc

primary to secondary leaks  
releasing to Atm

146  
1<sup>46</sup> AM

Th have release under control / superintendent

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C 10

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

1:40 AM

Plumley

Air intake to U-2 is east of Aux Bldg  
U-1 ventilation is now normal in Aux Bldg

4:5 Galina

Over Containment Press?  
HPCI status?

5 { Wind Δ now Fr. 150° to 330°  
1:47 AM @ 6 mph

I GE 5 SE  
7.8 x 10<sup>-8</sup> uci/cc

11:04 AM

1:53 AM

Margaret Riley

State, wants to block off Hinways Bridge Pa  
Rt 441 Middletown to Balmage Pa  
To take samples only at this time

1:56 AM

1.5 Psig Rx Cont. Press

Unit 1 is in hot std by

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C 11

TO:

FROM:

☐ INFORMATION UPDATE

~~12:28 PM~~ ☐ ACTION UPDATE

Baumack (for Seilinger)  
Pressurizer is full, th have bubbles in  
str. gen.

Primary 2000 psig  
Concern with potential for another release if  
reliefs blow

Re nth -  
944

Mike Wilbur Hg Response Ct  
Salina U-2 Rx 576 psig  
243 AM Getting ready to flood

32' BWST

Rx Cont = 3 psi increasing

Air borne prob in U-1  $8 \times 10^{-8}$  uc/cc

Observation Ct 3 mi/hr  
Wind is A

Rt 441 blocked Burnbridge to Middletown

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C / 2

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

Ray Smith  
3:45 PM  
12:45  
Quar. How are going to cut in RHR?  
They will call us on.  
337-5362 from Observation center 367-0518

Plumby  
3:45 PM  
Fence readings  
East side 5 m/s/hr 60 to 80' from pipe  
outside bldg wall Aux Bldg U-2  
West side  
Water in U-2 cooling towers no activity  
Plume area 20 m/s/hr <sup>from plume, 10 ft bldg</sup> ground level  
the atmospheric dumps using E120  
Are measuring air borne activity in Harrisburg  
per (Gershon?)  
Shutting down atmospheric dump

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_



INCIDENT MESSAGEFORM

CONTROL NO. C 13

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

Galina

Rad readings on uncalibrated instruments

Market St 1 mr.

Hanniburg 5 mr.

Turnpike 25 mr.

GM meter .3 mr/hr

20 PM Plumley going off site to obtain good Rad data

Crinkler on fr. Hq

11:00  
15 to  
1 PM

Helicopter readings

Conch

Crofford Station

< 1 mr/hr

Airport

< 1 mr/hr

Hille Is (North)

< 1 mr/hr

Stm Dumps closed

Reading appear to be going down 2-4 mr/hr

35 PM To Galina Ques - What is status of Pressurizer  
Relief Valves? Closed

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO. C 14

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

1:45  
Gallina

RC Pass 500

(Temp 250?)

RHR will be initiated @ ~ 350 psig

Rx Cont 1.2 psi

Air Sample

Eastern 1.7  $\times 10^{-9}$  Site Bo

1:48 PM

Site Boundary

1 This 300 ft above Containment 20 m/s  
by Helicopter

1:59 Gallina

Unit I Control Room

Unit 26 X MPC unidentified Gross

9 X MPC 1131

Unit 11 X ~~MPC~~ I MPC I

34 X MPC unidentified particulates

Unit I CR

1.02 X  $10^{-7}$  I

9.4  $\times 10^{-8}$  Particulate

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C 15

TO:

FROM:

☐ INFORMATION UPDATE

*Salina 2:10 PM* ☐ ACTION UPDATE

Off site at ~~the~~ site boundary

GE-2 3 Mr/hr @ 1355 hrs  
(North gate) I  $5.98 E^{-9}$  @ 12 Noon

400' above U-1 Cooling Tower - 10 Mr/hr 1330 hrs

West Warehouse 2-3 Mr/hr No time

GE-4 @ 1333 hrs < 1 Mr/hr

East Island I  $1.79 E^{-9}$

GE-5 11:04 hrs 2 Mr/hr

SE

I  $7.8 \times 10^{-8}$

South of Island < .1 Mr/hr

North Parking 15 Mr/hr @ 1350 hrs

@ 2:10 PM Wind due North @ 10 mph

U1 Control  $1.06 \times 10^{-7}$  sec/cc @ 1352  
Particulate

2:15 PM I @ North Gate  $6.8 \times 10^{-7}$   
Sample just off counter

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO. C-16

TO:

FROM:

☐ INFORMATION UPDATE

☒ ACTION UPDATE

2:30 Galina

The release for Aux Bldg floor drains

10 R/hr

1-2 R/hr in area of Aux Rad Waste Control panels

All U-2 drain tanks are full  
Will dump neutralizing waste to (U-2) to  
misc of U-1, Will both run floor  
Will pump Aux Bldg floor to U-2 neutralize  
the and misc (U1) waste tank

2:45

Sandy Lower

No water now coming for containment the none  
since 4 poig isolation

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C-17

TO:

FROM:

☐ INFORMATION UPDATE

*in line 250 AM* ☐ ACTION UPDATE

CR Activity U-1

$4.67 \times 10^{-7}$

I @ 1400.

$5.6 \times 10^{-8}$

I @ 1432

$7.38 \times 10^{-8}$

Middletown 1445 hrs < 1 mi/hr  
swimming club

*in* Status: U-2

550 Th

200 Tc

450 psig

} Not circ. cool down  
3°/hr estimate 16 to 18 hrs  
to Go to RHR

Going on decay via BWST

Suction for BWST thru RHR pumps & recirc.  
Open TAC 1 2 & 3

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_



INCIDENT MESSAGEFORM

CONTROL NO. C-18

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

at 3:30 PM lost site communications  
1st Shift Supt

Cooling down 3°/hr currently 450 psig  
interlock 420 psig

30 PM  
Lv —  
Press —  
Flow —

Not cooling down using Steam Gen

Now  
Make up pumps to 16 valve to Rx  
Pressurizer level ~ 166" periodically cycling electro-  
matic relief.

\* Survey  
1534 hrs 30 mph @ North Gate

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

## INCIDENT MESSAGEFORM

CONTROL NO. C-~~18~~ 19

TO:

FROM:

☐ INFORMATION UPDATE☐ ACTION UPDATE

45/ Galina  
 1403 hrs. Middletown  $3.5 \times 10^{-9}$  uci/cc I  
 1427 hrs. "  $1.22 \times 10^{-8}$  uci/cc I  
 1458 hrs. "  $1.43 \times 10^{-9}$  uci/cc I  
 2 mi/hr Northgate (Going to ch instrument)  
 Rx Bldg 0 psig  
 Pressure = level 170"  
 Temp. 460°  
 pressure 450 psig  
 600hr Northgate < 1 mi HP site

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C-~~20~~ 20

TO:

FM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

4<sup>10</sup><sub>2</sub> In-core temps unavailable (computer or sensor problem)  
Core Rd Tks floating on core; slide in at 6cc + level decreased  
Th. 590; other pegged  
Prz. 175" (solid)  
U-2 feels no boiling in core  
Wind due North, no change since last indication  
4<sup>30</sup>  
A<sup>35</sup> Opening EM RV to depressurize  
Phone Xfer to U-2 CR started  
" " complete

Press. 450-500

Continuing normal letdown + EM-RV opening  
1209pm. in term. Hentley.

INFORMATION PROVIDED BY (SOURCE):

DATE:

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C-21

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

With EM-RV opening, lowest press  
450 #.

4<sup>50</sup>  
P

Bleed thru 1d @ 120 gpm. - Nat. circ.  
cooldown thru "A" S.G.

5<sup>05</sup>  
P

Working on getting up m.m. cond vacuum.  
Starting to draw vacuum  
Confident no bubble in "A" S.G. loop  
Press. 650 # - continuing L.D.  
Prz. 400 " coming down

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C 22

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

5<sup>07</sup> PM Higgins @ site U-2

5<sup>20</sup> PM Starting to Strm A to Condenser  
Higgins Pressurizer 400"

Press. 650 psig

B loop

650°-700°

C -

225°

Hot leg A

570°-580°

} TKS  
Not dependable

Still feeding with make up pumps  
Letting down with electric relief

5:25 PM

NRC - at site

@ U-2

Banach. Bailey Nemes Higgins Smith

U-1

Gallina Plumley

INFORMATION PROVIDED BY (SOURCE):

DATE:

3/28/79 Wed

TIME:



INCIDENT MESSAGEFORM

CONTROL NO. C. 23

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

5<sup>30</sup> PM

1615 hrs 50 Mts @ Northgate

Higgins  
543

A Stm gen valve not opening - not steaming  
Bleed Valve fr gen to condenser  
Are investigating why valve not opening

Higgins

550 PM

A Stm gen - started steaming - using turbine bypass  
valve to condenser - indication of level  
drop / temp. change in stm. gen.

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 3/28/79

TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C24

TO:

FROM:

☒ INFORMATION UPDATE

☒ ACTION UPDATE

Higgins  
600 pm

Continuing cooldown

A-loop 548 TH ~~TH~~ TC

Filling pressurizer - going solid to collapse  
all bubbles.

@ 900 psi - going to 2000 psi

BWST - 23 feet

Higgins  
615 pm

RCS pressure - 1100 psi

TH 555 TC 300 A-loop

B-loop - Still has a bubble 650-700 TH

200°F TC

Condenser vacuum = 57 in Hg.

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 3-28-79

TIME: \_\_\_\_\_

## INCIDENT MESSAGEFORM

CONTROL NO.

C25

TO:

FROM:

☐ INFORMATION UPDATE☐ ACTION UPDATEHiggins  
635 pmRCS pressure @ 1800  
TH 570 TC 220Neely  
650 pmRadiation level in U2 Control Room  
0.4 mR/hr @ 4 PM 0.1 mR/hr now10 min  
652 pm

RCS pressure @ 2300 psi

Bubble still in B loop

A loop 560°F TH 320°F TC

100,000 #/hr condensate flow in B steam gen.

A steam gen - ~~100~~ = 50 psi

INFORMATION PROVIDED BY (SOURCE):

DATE:

3/28/79

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. C 26

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

*715*  
*700*

A loop Temp

B loop

Pressurizer Temp

" level (Solid)

Pressure \_\_\_\_\_

Pressure \_\_\_\_\_

Pressure 2300

*700* T<sub>hot</sub> 560°

T<sub>cold</sub> 360° B ~~220~~

*710* T<sub>hot</sub> 557°

T<sub>cold</sub> 380° B 240°

Stm Gen B 180 psig

" " A 20 psig

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. C 27

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

7<sup>20</sup> PM

BWST @ 22'

Storing

A loop  $\Delta T$  decreased

Rx Pressure 2300 Increasing Temp with heaters  
-0.2 psig

1<sup>25</sup> PM  
Smith

2nd System act. @ 4 PM

Gross B  $< 10 \times 10^{-5}$  seci/ml

No update on primary coolant

Last stm. generator samples taken this AM

7<sup>35</sup> PM

Bumped Rx Coolant Pump

will wait 15 min & bump again or run  
stm gen press up to 200 psig  
10 sec bump

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_



INCIDENT MESSAGEFORM

CONTROL NO. C 28

TO:

FROM:

☐ INFORMATION UPDATE

☐ ACTION UPDATE

7:45 PM Smith Plans are to restart RCP and leave on.  
RCP started in A loop

7:48 PM Presg. Press. 1200 psi steady  
Both A&B Stm. Gen. 350° presg 100 psig  
Psg level - high

3:00 PM 8:10 PM T cold ~ 320°-340°  
Fuel Temp 611° to 254°  
Maintaining <sup>U-2</sup> Vac off U-1 Aux Boiler  
Flows look good

8:16 PM Baunold  
Stm Gen 100 psig Both Tc's 340°  
Pr Press 1300 psig  
Pr Temp 519°  
Vac going down

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. R-1

TO: CPX

FROM: Dick Debiel

☒ INFORMATION UPDATE

☐ ACTION UPDATE :

Containment Dome	~	0800	200 R/hr
Gm 4" Ph shield	x	0825	600 R/hr
	~	0840	1000 R/hr
	~	0900	6000 R/hr
	~	10000	6000 R/hr

Personnel Air Lock

Gm on 305' by air lock	120 m/hr	0900
	2100 m/hr	1000

No indication of saturation

Containment Operating Floor	10 R/hr	0900
	10 R/hr	1000

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 1-28 TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. R-2

TO: GP-8

FROM: Oak Debiel

☒ INFORMATION UPDATE

☐ ACTION UPDATE

0800 12 HP Techs 7 Supervisors  
8 man environmental monitoring team

Aux Bldg isolated.

No personnel exposure problems.

B S/G leak noted by  
vacuum pump monitor

0900 B S/G isolated

0800 containment pressure 1 PSI.

0900 " " 4 PSI.

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 1-28-79 TIME: 0500

INCIDENT MESSAGEFORM

CONTROL NO. R-3

TO: GMY

FROM: Dick DeWard

☒ INFORMATION UPDATE

☐ ACTION UPDATE

Environmental

0900 Site boundary  $< .1$  mCi/hr had held  
inst.

One grab sample at site boundary  
for  $I^{131}$  indicated  $< 6 \times 10^{-8}$  mCi/cc  
ground level in plume.

Wind out of east at 2 mi/hr  
 $80^{\circ} - 90^{\circ}$  Stable.

1015 In laundry west 11  $1.2 \times 10^{-8}$   $I^{131}$  SAM 2  
WSW 1-1 1 min. offsite  
Sample to be flow to Holy Spirit at  
Camp Hill for Geli state Brew Red Health

1030 Unit 2 Control Room  $1 \times 10^{-7}$  mCi/cc Gross Bx  
CAM in control room raising slowly  
Unit 1 & 2 Fuel Bld  $10^{-4}$  mCi/cc by read out.

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 1-28 TIME: msg 0900

INCIDENT MESSAGEFORM

CONTROL NO. R-4

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

Original indication of problem at  
Unit 1 Sample Station. Boron line  
read 600 mμ/w (no line)

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

1. ADDRESSEE



INCIDENT MESSAGEFORM

CONTROL NO. R-5

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

0950 -

1. Site personnel, No evac.  
muster taken, 2 areas turbine bldg  
const workers at South gate  
Ops site at Unit 2 Control Room
2. No consideration of off site evac

105 Chico

wind shift 1038

North parking lot 3 mi/hr ↑

1107

↓ H down to Unit 2 control Room  
10:00 pm midnight 12:00 am -  
717-944-4041 at 203, 291  
SS office -

INFORMATION PROVIDED BY (SOURCE): NRC at Site

DATE: 1-28-79 TIME: 1130

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO. R-6

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1130 GE-4  $2.8 \times 10^{-7}$  mcl I East Island

1135 Chick Gil - Meteorology

1 Am wind  $270^\circ$  west

1 mi/hr - 2 mi/hr

Peak 4 mi/hr

0950 - wind  $140^\circ \rightarrow$  SEast

1 - mi/hr

2 mi/hr

1105 - wind  $270^\circ$  to  $90^\circ$

2 mi/hr

wind  $90^\circ$  at 2 mi/hr

Dist east of unit 2 GE-4 1128  $2.84 \times 10^{-7}$  mcl  
Premier East Island -

Primary Secondary B S/G Sec.

A S/G relief to Atm -

Releases under control - S/G leak -

Primary Sample Line Number = -

1. Unit 2

2. Unit 1 Ventilation Aux held on -

3.

George to Earl / Nimits to take sample -

INFORMATION PROVIDED BY (SOURCE): NRC at site

DATE: 1-28-79 TIME: 1130

INCIDENT MESSAGEFORM

CONTROL NO. B-7

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

MDA  $1 \times 10^{-10}$  mci/cc

Nimitz at 1110

North Gate

GE-2

< 1 mr/hr 1029 A

< MDA I

North parking lot

3 mr/hr 1000

Base of containment

50 m

West corner

< MDA 0905

< 1 mr/hr 0750

GE-9

$5.2 \times 10^{-9}$  I 0842

< 1

East Island

GE-4

7 mr/hr

1057

< MDA

I

West E.

GE-5

2 mr/hr

1104

South Goldsbrough

$1.2 \times 10^{-9}$

0900

North Goldsbrough

$1.17 \times 10^{-8}$

0940

Across river at closer center

3 mr/hr

1111

$10^{-8}/10^{-9}$

1115

Coolant Sample 1110

100 ml read 200 mr/hr in glass at contact

72 mci/cc total activity

INFORMATION PROVIDED BY (SOURCE): NRC on site CG

DATE: 1-28-79 TIME: 1038

1. ADDRESSEE

INCIDENT MESSAGEFORM

CONTROL NO. R-8

TO:       

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1210 the primary coolant sample will be diluted  
so it can be analyzed on a G.C. system.

1215 - O.N.

No Battery Air Sample

East Island 1130  $< 1 \text{ m}^3/\text{h}$  U520 SAM 2 < MDA

$3 \times 10^{-7} \text{ ng/cc}$  I-133 - SAM-2 10:00, due to wind  
chng - wind stopped.

U522 control Room  $2 \times 10^{-8}$  gross B-

Floor drain R & BL to Aux Bld -  
out Aux Bld vent. Aux Bld fan sec.

Rebail Bld -

Vent on at 1000 AM Aux Bld -

> State wants it to stay on site  
Both Reful Floor isolated

INFORMATION PROVIDED BY (SOURCE): WRC - on site

DATE: 3-28-77 TIME: 1215

INCIDENT MESSAGEFORM

CONTROL NO. R-9

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

66  
→ 1147 m wind From 150° at 6 mi/hr  
GE-5 S.E. count 1104  $7.8 \times 10^{-8}$  mc/cc

Margaret Riley State of Pa. may have a  
milk problem.

Considering Secor Road -  
RT. 441 Middle town to Bainbridge

INFORMATION PROVIDED BY (SOURCE): NRC on site

DATE: 3-28-77 TIME: 1155



INCIDENT MESSAGEFORM

CONTROL NO. R-10

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

D.R. in Unit 2 C.R., RPM Per

- Dick Dubler - 140 mci/cc only sample -

- B&W No Fuel Done -

D.N. to B. Ray -

1. Sample of Reactor coolant was taken.

WB dose rates in fuel Bldg was 600 mr/hr above

primary sample lines, 12/hr at contact

in sample room 200 R/hr at contact with this work

This sample indicated 140 mci/cc

Dose rates in containment the same

Don Back, only one .1 ml/sample -

17-20 mci/cc I no this

INFORMATION PROVIDED BY (SOURCE): NRC - Weekly

DATE: 8-28-79 TIME: 1245

INCIDENT MESSAGEFORM

CONTROL NO. R-11

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1245 - Route 441 Blocked?  
- 3 mr/h at observation center across river

Don Neely

1. 140 uCi/cc R.C. Sample only one .1 mL  
16-17 uCi/cc iodine
2. Unit 2 Aux Bldg vent monitor pegged  
ARM in area 400 mr/h  
the will change out cartridge sample
3. Containment ARM dose rates constant
4. Fuel Bldg ARM pegged
5. Waste gas collection tank ARM Pegged
6. 500 mr/h outside containment.
7. No effort intended to take containment sample.

INFORMATION PROVIDED BY (SOURCE): NRC on Site

DATE: 8-28-79 TIME: 1250

INCIDENT MESSAGEFORM

CONTROL NO. R-12

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1300 Unit 1 Control Room going on masks - personnel  
being moved to observation center -  $1 \times 10^{-8}$  Tochr

Chicks will remain in Unit 1 in mask  
-367-0518-

Early Pombley -

East side - up wind - 5 m/hr (direct)  
no surface contamination -

60-80 ft from pipe out side well.  
Aux bldg

West side - cooling water no reading

→ Plume off plume from 20 m/hr  
10 m/hr no plume - He used  
Charles E120 -

→ Fence - ~~Unit 2~~ Unit 2 inside 5 m/hr

→ CG measuring airborne activity in Harrisburg -

INFORMATION PROVIDED BY (SOURCE): WBC on site

DATE: 3-28-79 TIME: 1305

INCIDENT MESSAGEFORM

CONTROL NO. R-13

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

C.P. 1308 shut down plume

C.G. Radiation Readings - Harrisburg

Thy ac - Fine & coarse - 1 m/h  
uncalibrated.                      mall                      5 m/h

- Turnpike 25 m/h

Gm - Turnpike - 3 m/h

A.S/6 may be leaking -

- Plumley & N. unit 2 to take off site readings

- 0900 Primary Sample

→ RT. 441 2-3 m/h  $1.1 \times 10^{-5}$  dpm/cc

- Unit 2 Dubin 20 available - 4 at home  
50 STB at Salem

- Perimeter fence min 10 m/h

- Condenser isolated -

INFORMATION PROVIDED BY (SOURCE): NRC - on site

DATE: 3-28-79 TIME: 1315

INCIDENT MESSAGEFORM

CONTROL NO. R-14

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

OR. 1330

- couple minor clothing contaminants -
- HP have gone in Aux Bldg (2)
- Not any better than when they started (PC)
- Bubble in vessel - ? unsure!

CG Unit 1

40

in 2 R. Press 500\* 250°R

1. Harrisburg International Air Port.
2. RHR can be cut in at 350 #

From Margaret Rielly Sol Pa via B. Boreas.

Tmi Goldsboro. result  $1 \times 10^{-8}$  Iodine, State of Pa called it  $1 \times 10^{-10}$  uci/cc Gali

11:30  
P1230

Direct Reading by State of Pa in Harrisburg 3N3d JT  
Gm/CP  $\rightarrow$  .07 m/h at State Lab.

Rt. 283 exit 15	.1 m/h	283 + Airport Road	.35 m/h
Rt 283 at "Host inn"	.35 m/h	Airport exit	.2 m/h
bt. 283 Horn pipe	.3 m/h	Rt 280 x River	.8 m/h

INFORMATION PROVIDED BY (SOURCE): State

DATE: 3-28-79 TIME: 1350

1. ADDRESSEE



INCIDENT MESSAGEFORM

CONTROL NO. R-16

15

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

CG East inside site <sup>pond</sup>  $1.7 \times 10^{-9}$  mc/cc  
1348 hr 300' above contain 20 mc/hr

1400 — Unit 1 26 X mpc unidentified  
9 X mpc I 131

Unit 1  
Control  
Room

11 X I 131  
34 mpc for Particulate —

$1.02 \times 10^{-7}$  I 131

$9.4 \times 10^{-8}$  Particulate.

1410 Off Site

GE-2 North Gate 3 m/hr 1355  
 $5.9 \times 10^{-9}$  I 1200

400' above unit 1 cooling tower 10 m/hr e 1332  
West warehouse 2-3 m/hr

GE-4 East Island < 1 m/hr 1333  
 $1.71 \times 10^{-9}$  mc/cc —

GE-5 South East in 2 m/hr 1104  
 $7.8 \times 10^{-8}$  mc/cc

INFORMATION PROVIDED BY (SOURCE): NRC on site

DATE: 3-28-79 TIME: 1415

INCIDENT MESSAGEFORM

CONTROL NO. 16  
R-17

TO:

FROM:

☒ INFORMATION UPDATE

CG. ☐ ACTION UPDATE

South ~~North~~ of island 4.1 mi/h  
→ North Parking Lot 15 mi/hr 1350  
- Wind due North 10 mi/hr ←

1415 Car Nimitz -  
Unit 1 console Part  $1.06 \times 10^{-7}$  Pa. time 1352

Slobodien

131 I North Bridge Gate  $6.8 \times 10^{-7}$  14:20 hrs

1430 - CG - Release from Aux Bld floor drains  
10 R/L at Aux Bld floor drain -  
1-2 R/L at Rad waste control panel

- All water storage tanks in unit 2 are full.
- Dump 2 Neutralizer to Unit 1 misc waste tank
- Dump to Unit 1 Floor to drain to bleed tanks
- pump sump from Unit 2 aux bldg to Neutralizer tank

INFORMATION PROVIDED BY (SOURCE): WRC - on site

DATE: 3-28-79

TIME: \_\_\_\_\_

INCIDENT MESSAGEFORM

CONTROL NO. R-17

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1440 - CG - water to be transferred from unit 2 sump  
to waste neutralizer tank.

- water come from floor drain - up two 6" x 8"

Greg Hiez - pumping down R<sub>2</sub> Red Sump  
INT Rapture disk, continued pumping until  
4 psi signal was flowed floor drain system.

No leaks in Aux Bldg

No water from containment. assume

1450

Unit 1  $1.67 \times 10^{-7}$  particulate

1400 5.6  $\times 10^{-8}$  Iodine - SAM-2

1432 7.3  $\times 10^{-8}$  "

Middletown - swim club < 1 mly/hr

INFORMATION PROVIDED BY (SOURCE): NRC on site

DATE: 3-29-79 TIME: 1455

INCIDENT MESSAGEFORM

CONTROL NO. R-18

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

1500 - 200 °E Tc  
550 °F TH  
450 #

Decay via BWST  
Normal cooldown mode -  
Swit BWST - Decay then - to  
Pot - back to BWST  
Open BAC 1, 2, 3,

Greg ~~Hit 2~~  
~~Hit 2~~

CG - 18 min Ph 88 / cs<sup>157</sup>, poss. ill 207.

1515 R.N. update meteorology -

E.P. Plume out side North Gate  
1555  $\frac{1}{4}$  to  $\frac{1}{2}$  mi wide along rd 441  
reading 1 mi/hr gust.

INFORMATION PROVIDED BY (SOURCE): WRC - on site

DATE: 3-28-79 TIME: 1600

INCIDENT MESSAGEFORM

CONTROL NO. B-19

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

Weekly Primary coolant chemistry Result.

0730 — 140 uci/ml Gross

0900 — 1150 uci/ml Gross

↳ 150 uci/ml  $I^{131}$

700 uci/ml  $Xe$

Rest Cs and Fission products

Since 0900 the coolant has been too hot to sample.

1403 m Middletown  $3.5 \times 10^{-9}$   $I^{131}$

1427 " Middletown. Sp.  $1.2 \times 10^{-8}$  uci/cc

1534 at Northgate 30 mcr/w

1458 Middletown swim club  $1.43 \times 10^{-9}$  uci/cc

INFORMATION PROVIDED BY (SOURCE): WRC - on site

DATE: 3-28-79 TIME: 1545

INCIDENT MESSAGEFORM

CONTROL NO. R-20

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

Request reanalysis of air samples - some sent to local  
Hospital -

check at 717-944-4041 ext 291

Gallina

16:00 -- Northgate < 1mR/hr from HP Supervisor  
levels had been as high as 70mR/hr then within 30 min went to 50mR/hr  
then to 1mR/hr @ 16:00

16:15 Update - Gallina - Supervisor

No in core Temp avail  
Core flood tank floating  
Boiling in both hot legs  
Pressure 175" (suck)

16:20 Northgate radiation levels 70mR/hr according to Nasty  
Wind due north @ 16:20. Nasty stated the 16:00 1mR/hr report  
was @ the weather station

INFORMATION PROVIDED BY (SOURCE): NRC - on-site

DATE: 3-28-79

TIME: 16:20



INCIDENT MESSAGEFORM

CONTROL NO. R-21

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

plumbe

60mR/hr @ Northgate due to variable wind  
radiation levels varies w/ wind. Simulates a ground level  
release. Digimaster,

Highest rad level @ fence line is 70mR/hr. 80-90 mR/hr @  
guard house. E-120 w/ HP 140 g Digimaster.

Personnel exposure - Gallini - 10mR/hr

Source of airborne release is from aux bldg floor drains. Water  
6 to 8 inches deep reading 10R/hr.

16:00 <sup>131</sup> I - 2.02X10<sup>7</sup> ~~accumulated~~ from North Gate - Nately  
16:00 ~~2.07X10<sup>4</sup>~~ access north gate Guyers Church fence  
16:50 < 1mR/hr @ legation. Source is Met & d via Nately Per informed  
Drifting to Middletown wind speed 4mi/hr

INFORMATION PROVIDED BY (SOURCE): NRL on site

DATE: 3/28/79 TIME: 17:10

INCIDENT MESSAGEFORM

CONTROL NO. R-22

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

17:15

Gallina - Base of containment exterior rad level 30 mR/h  
Nimitz - 5-10 mR/h

$^{85}\text{Rb}$  - major airborne contaminant. In house Ge Li MDA  $10^{-5} \mu\text{Ci}/\text{m}^3$

All personnel are off respirators. MPC-hs are being monitored

$3.25 \times 10^{-7} \mu\text{Ci}/\text{m}^3$ . Appears to be all  $^{85}\text{Rb} \Rightarrow 33\% \text{ MPC}$

There are locations in plant 10-20 mR/h

24 personnel standing by a Salam for off site sampling  
being called in.

~~SE~~ I North gate - 16:15  $2 \times 10^{-7}$   
30 mR/h

Iodines are being counted in on a SAM 2 but the #'s appear to

be contained w/ Noble gases. The local hospital has  
Nobles but MDA iodine  $< 10^{-10}$ . Most of mat'l  $\Rightarrow ^{85}\text{Rb}$

Unit 2 control rm  $\sim 10^{-8}$  gross Bq.

Sumps will be pumped in aux bldg. then plastic sheet placed  
over hot  $\text{H}_2\text{O}$  puddles

INFORMATION PROVIDED BY (SOURCE):

NRC - on site

DATE:

3/28/79

TIME:

INCIDENT MESSAGEFORM

CONTROL NO. 2-23

TO:

FROM:

17:50

☒ INFORMATION UPDATE

☐ ACTION UPDATE

Nimitz

Steam generator A sample -  $10^{-5}$  B.K. mda =  $10^{-5}$   
on in house.

~~Neely~~ ~~Estimates of I in primary coolant 140 p.p.m. @ 07:30~~

HP's are surveying all personnel who are exiting site  
no one has been found to be contaminated. ES20 + C.A. R.P. +  
open window window closed is 20 mph

17:20 data between

GE1 - GE-10, 210 mR/hr @ fence N.W. corner of island

Due work on Island @ Plot 140 mR @ GE-10

most to new

Northgate - 2 mR/hr

Wind 8 mi/hr due ~~North~~ 180° out of the south

Window open/window closed = 10/1

INFORMATION PROVIDED BY (SOURCE):

DATE:

3/28/79

TIME:

17:00

INCIDENT MESSAGEFORM

CONTROL NO. R-24

TO:

FROM:

☒ INFORMATION UPDATE

☐ ACTION UPDATE

17:45 - Air samples taken w/ direct measurements  $\Rightarrow$  8x26

~~17:50~~  
data 17:35

CLMR @ N-11 - Royaton

} PIC 6A

140 m/s, GE-10 NW of island

210 m/s between GE-GE-10 NE side near cooling tower

Plumber 17:50 - Rolling door - plate on door center - 2 R/hr  
on digimaster, generally through door 10 m/s  
300 m/s @ door edges. Unit two Equip  
hatch

INFORMATION PROVIDED BY (SOURCE): \_\_\_\_\_

DATE: 3/28/78

TIME: 17:50

Environmental

R Bores Contacts      3/28/79  
STATE, FEDERAL & MISC CONTACTS

0830 Contacted Stohr/Kotten ~~from~~ at Millstone, request that they return with van - ok

8-666-2200

0900 Made contact with RAP (Schweller) -  
TMI/Pe. had notified RAP, - two teams organized and are standing by. US Coast Guard to furnish transportation if necessary.

~1000 Tried to Contact Dave Langford, EPA:III  
no answer (8-597-8115)

~1005 Called EPA:HQ, Dr. R. Augustine's office - Otis Underhill, secy - informed him of TMI event and asked that he contact Langford. (8-557-9710)

~1005 Call from RAP (Bb Friess) Does NRC want an ARMS Aircraft Survey? - Ans. Not at this time - no indication of any offsite releases

~1010 Called RAP (Friess) - Request that DOE-ARMS people be put on stand-by. Inquiry made as to Est. Time of Arr (ETA) in event that request to "FLY" was made.



3/28/79

~ 1030 Call from Jim Martin (NRC: HQ) - He pointed out figure 7.6, p. 334 of "Meteorology and Atomic Energy" as a quick means of assessing I-131 and gross iodine deposition on pasture to aid in decision making regarding actions on "keeping cattle off pasture."  
(beta dose at surface  $\approx 90 \text{ mR/hr}$  per  $\text{MCi/m}^2$  iodine)

~ 1045 Called Pa (M. Reilly) - exchanged any bits of info. updates. I passed on reference made by Jim Martin (above). Reilly said Pa. will be doing close evaluation re: milk pathway based on TMI offsite I-131 number at Gottsboro ( $1.1 \text{ E-}8 \text{ MCi/cc}$ ). Pa. has made arrangements to have <sup>above</sup> sample flown to local hospital where Pa will pick it up for GeLi analysis in Pa lab.

Reilly said in discussions with site, B+W reps. contend that based on ratios of activity in primary coolant, they believe no fuel melt occurred. Primary activity (based on high Iodine to Cs/other fission products activity) increase due to release of fuel assembly "gap activity".



3/28/79

~ 1050 Call from RAP (Friess) - Estimated ETA for ARMS craft after request to "FLY" is made. Craft is at Andrews AF Base - Washington, DC. ~~Re~~ Friess inquired as to use of RAP teams - two teams still in "standby" - Coast Guard helicopter en-route to BNL - I suggested Friess reestablish contact with Pa (who originally requested RAP "stand by").

Friess requested NRC:I contact DOE:HQ (Emergency Operations Center (8-233-5555) to coordinate activities on ARMS. Friess to make call to DOE:HQ, and have DOE:HQ contact NRC:I.

~ 1100 Call from DOE:HQ (General Joe Bratten, Jack McCool (?), others)

I requested that ARMS craft be brought to TMI proximity - Capitol City Airport, New Cumberland, Pa. - and Stand-by at that location for further instructions. DOE:HQ concurred in this decision - will dispatch ARMS and ~~crew~~ crew. ~~They will~~ Crew will contact me from Andrews AFB prior to departure for additional directions.

3/28/79

DOE:HQ (cont)

DOE:HQ informed me that RAP had now been requested to respond by Pa. DOE:HQ requests that use of RAP/ARMS teams be coordinated through DOE:HQ under local direction - to be coordinated with Pa. also.

~1130 Reestablished contact with RAP - teams are being dispatched to TMI vicinity on Pa. request.  
ETA - a couple of hours,

~1150 Call from DOE rep. (Herb Hahn - ARMS team leader) from Andrews AFB - estimated ETA in Harrisburg area at ~1500 hr. I requested that they contact us upon arrival such that communications with them can be reestablished. -ok-

~1200 Call from RAP (Schweller) - RAP teams (2 teams - primarily environmental types - Hull, Greenhaus, ...) are being dispatched. Principle assignment by Pa - Assistance in monitoring airborne activity. Sampling equipt. on board. (Two teams dispatched via 2 helicopters.) ~~ETA~~ ETA ~1400 hr.

3/28/79

~ 1300 Call from DOE:HQ (R. Shaw) Emergency Operations Center - ① ~~Wanted~~ Wanted to know if we (NRC) wanted to establish an open line with DOE:HQ - Emergency Center - Ans. No - because of manpower considerations here at Reg I. ② Andrew AFB contingent will be flying to TMI using two helicopters (one for personnel, 2nd for equip.) - ARMS craft do not have air sampling as opposed to  $\gamma$ -measuring instrumentation aboard.

~ 1310 Call from Ron Sivetnam (BECO) - inquiry as to what was happening at TMI - brief scenario presented.

~ 1315 Call from EPA:III - Dave Langford - requested update on TMI incident - briefing was provided.

~ 1320 Call from N. Pangaris (Yankee organization) inquiry as to incident/status at TMI - briefly discussed

~ 1330 Called Pa (Reilly) - she now had results of TMI air sample from Goldsboro taken in a.m.

3/28/79

Pa. (cont)

Sample of Goldboro reported by TMI with  $1.1 \text{ E-}8 \text{ MC/cc}$  of I-131 - Pa. GeLi analysis indicated iodine activity was lower than  $1 \text{ E-}10 \text{ MC/cc}$ .

M. Reilly reported dose rates measured with GMs and cutie pie instruments in a car as follows:

0.07 mR/hr at Pa Lab - N 3rd St. Harrisburg

0.1 @ Rt 283, Exit 15

0.35 @ Rt 283 - Host Inn

0.3 @ Rt 283 + Tpk

0.35 @ Rt 283 and Airport Rd

0.2 @ Rt 283 + Airport Exit

0.8 @ Rt 230 and River

Readings were taken between 1130 and 1230 hr -

Discussed method of measurements in car + possible static electricity effects -

Discussed dose rates mentioned on news of 7 mR/hr on Rt 441 - possibly direct radiation from containment.

Pa Dept of Agriculture alerted - milk pathway - no action considered at this time - Pa will collect milk samples this evening to analyze for iodine (got tile number Emergency Use)

8-637-8907  
(in Pay Roll)



3/28/79

~1400 Call from Jack McCool (DOE:HQ Emerg. Ops Center)  
RAP from BNL being sent in 2 copters -  
Will be touching down momentarily in  
Harrisburg area. Will operate under Gensky's  
direction. Andrews contingent also arriving  
in two copters - one carrying Hahn, team  
leader and Shipman, scientist is landing now;  
the second is carrying the instrumentation  
will be arriving in  $\frac{1}{2}$  to  $\frac{3}{4}$  hr.

~1410 Call from Bernie Weiss (IE:HQ) - Weiss said  
that ARMS crew was to fly. Commission  
has been told that crew would be flying.  
(EOC)

~1420 Called Mr. Sherwood (DOE:HQ, Emerg. Ops Center  
8-233-5555 - Told DOE:HQ of decision to  
fly - They were aware. Mr. Tim Stone of  
NRC at DOE:HQ/EOC.

~1515 Call from B. Weiss (IE:HQ) - He requested info.  
on what we were asking ARMS to do. Ans.  
Perform quick, preliminary survey to see if offsite  
radiation/plume is seen. Did not request their  
data ran at this time. This can be brought up

3/28/79

if survey results warrant it.

~1530 hr. Called Pa. (Reilly) - She was becoming less convinced of any offsite airborne problem. Discussed any updates in previous info.

~1600 Called DOE: HQ/EOC - could not get hold of ARMS group at Capital City Airport. - I was given a new number for contacting Mr Hahn (717-784-8031) Airport Mgr's tele.

~1605 Called above number - get Herb Hahn -

- 1) copter up for 35-40 minutes, 2) flight started at the perimeter of island, across the river and progressing North.
- 3) Data van will be moved up DOE mgmt decision, should be here on 3/29 early morning.
- 4) RAP air samples taken at airport showed only noble gas concentrations
- 5) Some newspaper interest shown in ARMS aircraft.



3/28/79

~ 1615 Contacted Bob Shipman - ARMS Scientist

230 Kev peak predominates - looks like  $\text{Xe}^{133}$

- plume ~~was~~ centered over Middletown and Hummelstown

- ~ 30° sector affected

- Western edge from plant to Rutherford Heights and  
Linglestown

- Eastern edge from plant to Hershey,

- intensity seemed to increase monotonically

(Wind out of S-SW at 20 mph)

- craft detectors not calibrated for plume measurements,  
but estimate 0.1 mR/hr @ 16 mi from plant on centerline  
of plume.

- Followed plume back to plant - ~~an~~ instrument  
completely saturated (100% deadtime) by time  
they reached Middletown -

- no vertical stratification observed - same count  
rate between 500 and 100 ft.

- no survey instruments on board - "guessimate"  
mR/hr numbers over Middletown -

- asked me to fill in DOE:HQ/EOC - OK

3/28/79

~1730 hr Contacted DOE:HQ/EOC (Commander Strommen - filled him in on above

~1735 Returned Dave Langford's (EPA:III) call - wanted updated info - briefed him - He talked to Pa's lab tech - she told him that no I-131 was detectable in TMI's Goldsboro cartridge nor in a grass sample from area.

~1745 Call from Hahn (ARMS) - inquired as to whether steam was being dumped from TMI and whether rate of release was to be increased? Ans: I didn't know answer to this question at this time.

- I inquired whether we would be requesting a full survey of TMI on 3/29. I said I hadn't heard anything in this regard, however, if release has not terminated and/or no deposition has occurred, I would think not. May do more plume work.
- He and crew will be staying at Mechanicsburg - Cross Gates Inn (717-697-0321)

3/28/79

- 1820 - Called Gersky (Pa) - contact to exchange info. He just got back from briefing with the governor, MetEd and media.
- I inquired about use of RAP teams - one was collecting samples (he had no data); second team was eating.
  - Gersky said teams were under his/Reilly's direction.
  - Mentioned Stohr was on his way with the van and if help needed with RAP direction, Stohr might be able to assist.
  - Gersky said he may do that later, but wants to get himself squared away first after been out of office for 3 hr.

R00 - 1900 Tried unsuccessfully to recontact ARX/3 group at both hotel and airport. Wanted to request another flight this evening.

1850 Called Todd Jackson at home - informed him of Stohr's request to meet him at visitor center tomorrow - OK.

1910 Contact made with Hahn - can they fly at night? Check with pilot (Jack Watson) - yes - Request for flight was made to redefine the plume.

3/28/79

THI 2  
wind 100%

8<sup>00</sup>  
A

PDS alt in str gen. 3-4 am

TS trip - rapid condensation in PS

SI - lost Png bubble - failed fuel

lost pur level - probably bubble in K vessel  
as failed fuel

Heated in R bldg 200 R/hr

10, 11 same

How Bldg. MATH area

1 me/hr.

No exposure to personnel

outside boundary

All Rcont monitors in high alarm

Plant Parameters

RCS press 1500 #

Temp Tag 571

1A Str gen

50-320

Notes provided by  
R. Keimig, R1

4 AM

low pt to SG - TG Trip - Rk Trip

Sealrigid - 6 AM

2<sup>nd</sup> in vent - then rupture dec

in str. tank - electrostatic RVS  
lifted.

Site Emergency -

Seal " - 7:24

passed.

44% A } S.G. level

56% B } operating range

SG's isolated



Brunner & ~~XXXXXXXXXX~~

①

notes from 3/28

745

JMI

7<sup>09</sup>

Sate E

7<sup>44</sup>

Ben Energy

Traffler

Primary to Secondary

B SG

717-944-6017

-4041

715-921-6566

Times

8<sup>45</sup>

1<sup>st</sup> car left

9<sup>00</sup>

2<sup>nd</sup> car left

W/Police Escort & arrived @ 10<sup>05</sup>

W/O Police Escort & arrived @ 11<sup>00</sup>

7<sup>45</sup>

Initial call from Mary Jo

8<sup>48</sup>

Boys aware & giving return call to site

8<sup>53</sup>

Boys aware of importance, activate

8<sup>00</sup>

Boys aware of importance, activate

Energy Center Center

8-8<sup>05</sup>

J Davis called

805-809

Bryan called Bruner & briefed

8<sup>10</sup>

Energy Center in service

George Smith notes from  
Warren. 3/28/79  
lead mechanical engineer unit-2  
General Emergency

loss of feed water

Turbine Trips

3-4 a.m.

Reactor Trips

↓

RC pit ↓

↓

bubbles in vessel.

failed fuel + pressure to sec. leak.  
monitoring site — no known off site  
release.

Site emergency 6:45  
General " 7:20

no known exposure  
or contamination

unable to get American Nuc.  
insurance

state police directing  
traffic — no hold up.

ROTT team + dispatching  
a team — precaution

Contact people sent home  
mustered

Gary Miller in Emergency Director