50-320

Chronological Radiological Data 3/28/79 - 4/1/79 from IE Files

181 106

7906130 426

*checked at hospital
<1 x 10^{-10} µCi/cc

28 March

OFFSITE

Time	Location	mr/hr Direct	*µCi/cc Iodine
0900	Town of Goldsboro, South		*1.2×10^{-9}
0940	Town of Goldsboro, North		1.2×10^{-8}
1111	Observation Facility, East of site across river	3	10^{-8}-10^{-9}
1130	Rt. 283 Near Harrisburg (State)	0.1-0.3	
1130	Rt. 230 By River (State)	0.8	
*1300	Grass Sample (State - RAT)		
1403	Middletown	Bkg	
	Middletown Square	1 - 5	3.5×10^{-9}
	Middletown Swim Club	<1	1.2×10^{-8}
1500	Harrisburg (NRC)		1.4×10^{-9}
1500	Middletown (NRC)	Bkg	
1500	Arms in air	<1	
1630	Arms reports plume N and NE of plant at distance of ~16 miles primarily Xe-133 m (instrument saturates at ~2 mi. N of site	0.1 mr/hr	
	Wind 8 mph from 170°		
1815	Rte. 441 and RR tracks ~ 1/2 mile NE of site	<1 mr/hr	
	Rte. 441 and south Union St. Middletown ~2-1/2 mile north of site	<1 mr/hr	<min. det
1720	1 mile north of site		2.3×10^{-9}
	Roylton - 2 miles north		9.6×10^{-9}
~1800	milk sample ~ 1 mile from site (State) - RAT		
1830	(Rte. 441 Boat Club - 2 miles north		no det. Iodine
1835	(Rte. 230 ~3 miles north	<.05 mr/hr <1 mr/hr	

181 107

28 March

	On and Near Site Time	Location	Direct	Gross on Cartridge (MDA 10^{-10})
2	0750	W corner island	< 1 mr/hr	
3	0842	site perimeter (GE-9)	< 1 mr/hr	
5	0905	W corner island		< MDA
6	1000	N parking lot	3 mr/hr	
7	1000	base of containment	50 mr/hr	
8	1029	North gate (GE-2)	1 mr/hr	< MDA
9	1057	East island (GE-4)	7 mr/hr	< MDA
10	1100	NE Unit 1		1.75×10^{-9}
11	1104	SE (GE-5, perimeter)	2 mr/hr	7.8 E-9
15	1147	SE (GE-5)		7.8×10^{-8}
16	1200	East Island (GE-4)		3×10^{-9}
17	1200	North gate		5.9×10^{-9}
18	1332	Cooling tower (400 ft. above)	10 mr/hr	
19	1332	Warehouse	3 mr/hr	
21	1333	East island (GE-4)	1 mr/hr	1.71×10^{-9}
22	1333	South island	0.1 mr/hr	
23	1350	North parking lot	15 mr/hr	
24	1355	North Gate	3 mr/hr	
	1420	North Gate		6.8×10^{-7}
25	1400	Helicopter (300' above contain.)	20 mr/hr	
26	1400	Unit 1 control room		1.7×10^{-7} particulate
27	1432	Unit 1 control room		6×10^{-8} gross iodine
29	1434	North Gate	34 mr/hr	

Wind 8 mph from 170°

28 March

On and Near Site Time	Location	Direct	Gross on Cartridge (MDA 10^{10})
30 1630	North gate		2×10^{-7} gross iodine
32 1715	Center of door	2 R/hr	
	Door edge	300 mr/hr	
37 1830	North gate	(13 mr/hr)	
		(26 mr/hr)	
	NRC	~ 1/2 mile NNE	
		(0.5 mr/hr)	
		(0.05 mr/hr)	
	wind 8-10 mph from SSE		
1917	NW Boundary	10 mr/hr	
1920	NW Boundary	12 mr/hr	
1923	NW Boundary	20 mr/hr	
		3 mr/hr	
1923	Switching tower	<1 mr/hr	
	North gate area	<1 mr/hr	
1930	Aux. Bldg Access corridor	0.4	
	Aux. Bldg exhaust vent area	<0.1	
	RX. Bldg Booster pump area	600	
	Personnel Access Hatch	20	
	RX. Bldg Dome (unchanged)	2×10^4 R/hr	
1930	Contractor Bldg. corridor	8	
	Fuel handling exhaust	500	
2010	N of plant at warehouse varied over few minutes	2-16 mr/hr	

Time	Location	Direct	Cartridge (MDA 10^{-10})
2015	Licensee estimates 5-8 people may have received 0.5 - 1 Rem dose - laying plastic sheet in auxiliary bldg.		
~~0~~2045	Auxiliary Bldg - 305' near puddles	8 Rem/hr	
	no puddles	1 Rem/hr	
	AB Waste Disposal area	2 Rem/hr	
	Cooling water for containment fans	4 Rem/hr	
	Spent fuel pool area	10 Rem/hr	
	Containment Dome	20,000 Rem/hr	
	Aux Bldg 281'near elevator	7-10 Rem/hr	
	Aux Bldg 305' no H_2O	1 Rem/hr	
	RX coolant letdown H_2O	I-135 2 x 10^{-2}	uCi/cc
2140	Center Door)*See data at 1715	1.6 R/hr	
	Door Edge)for comparison		
2200	Air sample (Brookhaven) Rt. I-283	No iodine Detected	
2330	Warehouse area	50 mrem & 365 mrem/B	
2340	GE-10 NW of warehouse (NRC)	MDA Van (1 x 10^{-9} I)	

29 March

29 Mar

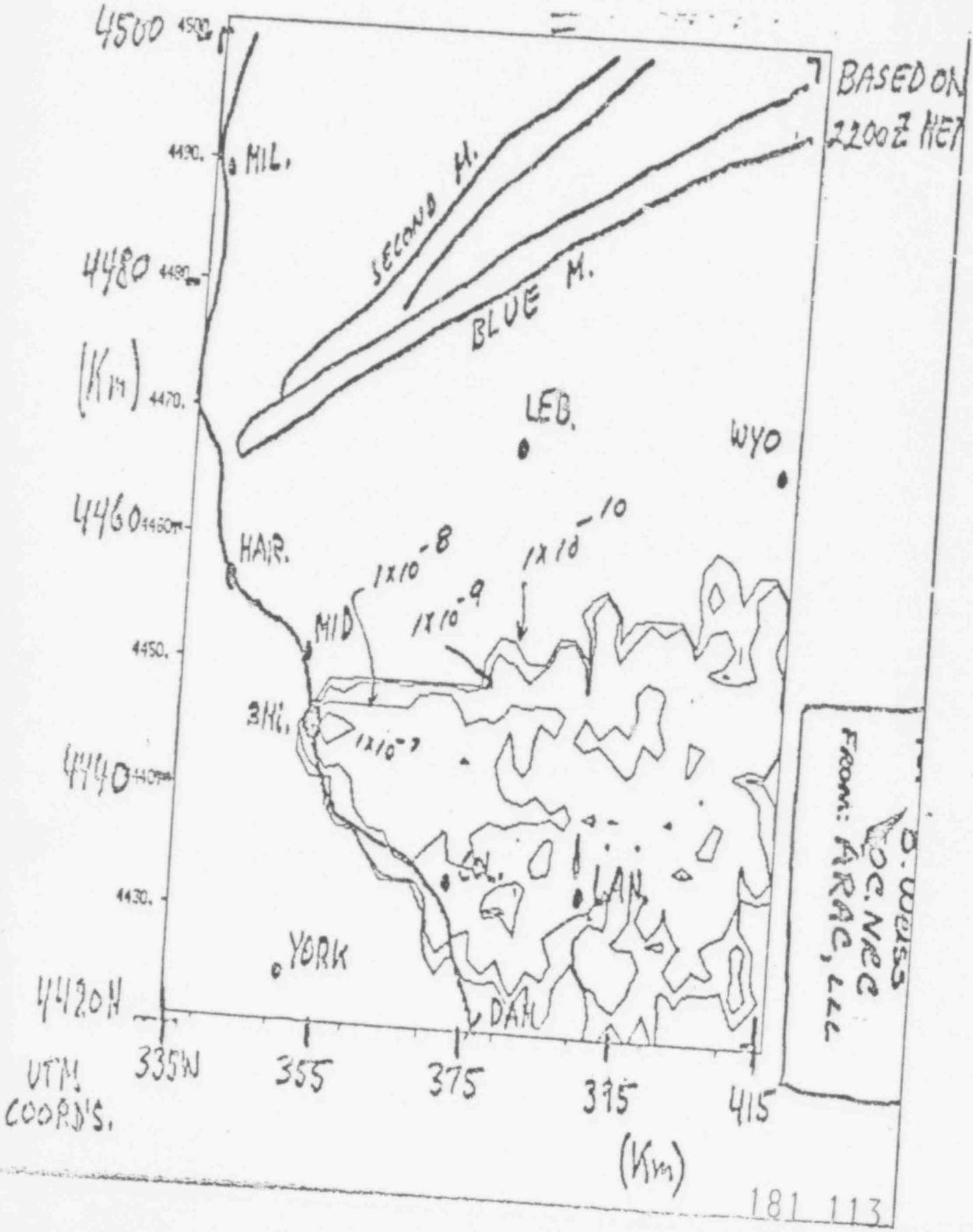
4 0011	Northgate	MDA Van (1 x 10^{-9} I)	
5 N0030	Unit 1 data Aux Bldg Vent Monitor	3 x 10^{-7} uCi/cc	
1 0000	Questionable particulate	1 x 10^{-6}	uCi/cc
	Noble gas	2 x 10^{-4}	uCi/cc
	(stopped flow of 84,000 cfm water to auxiliary building)		
6 0050	North gate	3.5 mr/hr	
	Observation Center	<0.1 mr/hr	
	Control room	5 mr/hr	
	Unit #1 machine shop	40 Rem/hr	
0330	Restart Aux bldg vent		
0355	GE-9 just W of Rec. Bldg	20mr/hr	

181 110

Time	Location	Direct	Cartridge (MDA 10^{-10})
0410		50	
0530		1000 *	
0400	GE-100 river bank on island	1	
0405		25	
0530		2	
0410	GE-8 W boundary of island	28	
0420		26	
0425	North gate	27	
0430	GE-7 Southern boundary of island	26	
0600	Goldsboro - 1 mile due west	20 (20 ✓) (30 B)	
0650	Control Room	? mr/hr	
0710	Containment dome deck monitor failed and logged out of service	3000 R/hr	
0710	Personnel hatch	10 mr/hr	
0745	Unit 2 control room	1.5 ● mr/hr	
0830	Observation center	<0.1	
0925	Based on plant instrumentation		
	Fuel Handling Building	Particulate 1.47×10^{-7}	
		Iodine 1.23×10^{-6}	
		Noble gas 2.78×10^{-5}	
	Aux Bldg Unit 1	Particulate 1.37×10^{-7}	
		Iodine 1.15×10^{-6}	
		Noble gas 2.78×10^{-5}	
	Unit 1 Plant Vent	Particulate 5.94×10^{-8}	
		Iodine 8.46×10^{-7}	
		Noble gas 3.1×10^{-5}	
1014	GE-10 Wedge of Island	2.5 m/rad ✓ B8	
	GE-4 Edge of Island	10 m/rad ✓ B8	

181 111

Time	Location	Direct	Cartridge (MDA 10^{-10}
1038	GE-6 Strip of Island	1.5 m/rad	
1140	Unit 1 Control Room Unit 2 Control Room	0.1 mr/hr all area monitors decreasing	
1215	Aux bldg pumped out; putting plastic sheeting on floor	400 mr/hr	
1410	Unit 1 Control Room Unit 2 Control Room	0.1 mr/hr all area monitors decreasing	
1415	Aux bldg pumped out; putting plastic sheeting on floor	400 mr/hr	
1410	13' above Unit 2 stack	400	
1420	North End of Island	< 1-4	
1425	Western side of Island	1	
1450	SW side of Island	1	
1630	SW side of Island	4	
1650	North Parking Lot	<1	
1730-1930	15 readings on site most at ~ 0.6	0.1-1.8	



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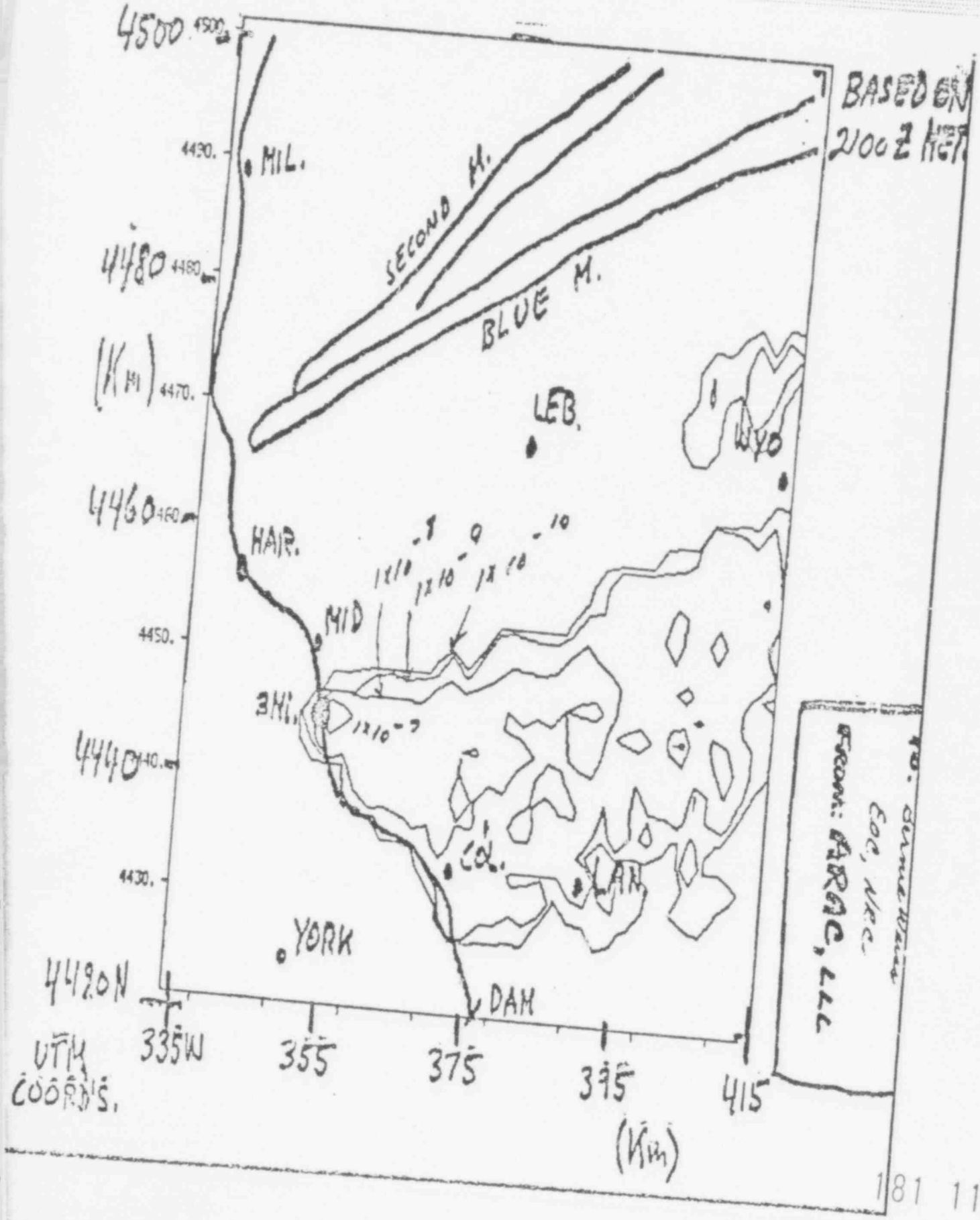
(Km)
UTM
COORD'S.
FROM: ARAC, LLC

181 113



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YORK
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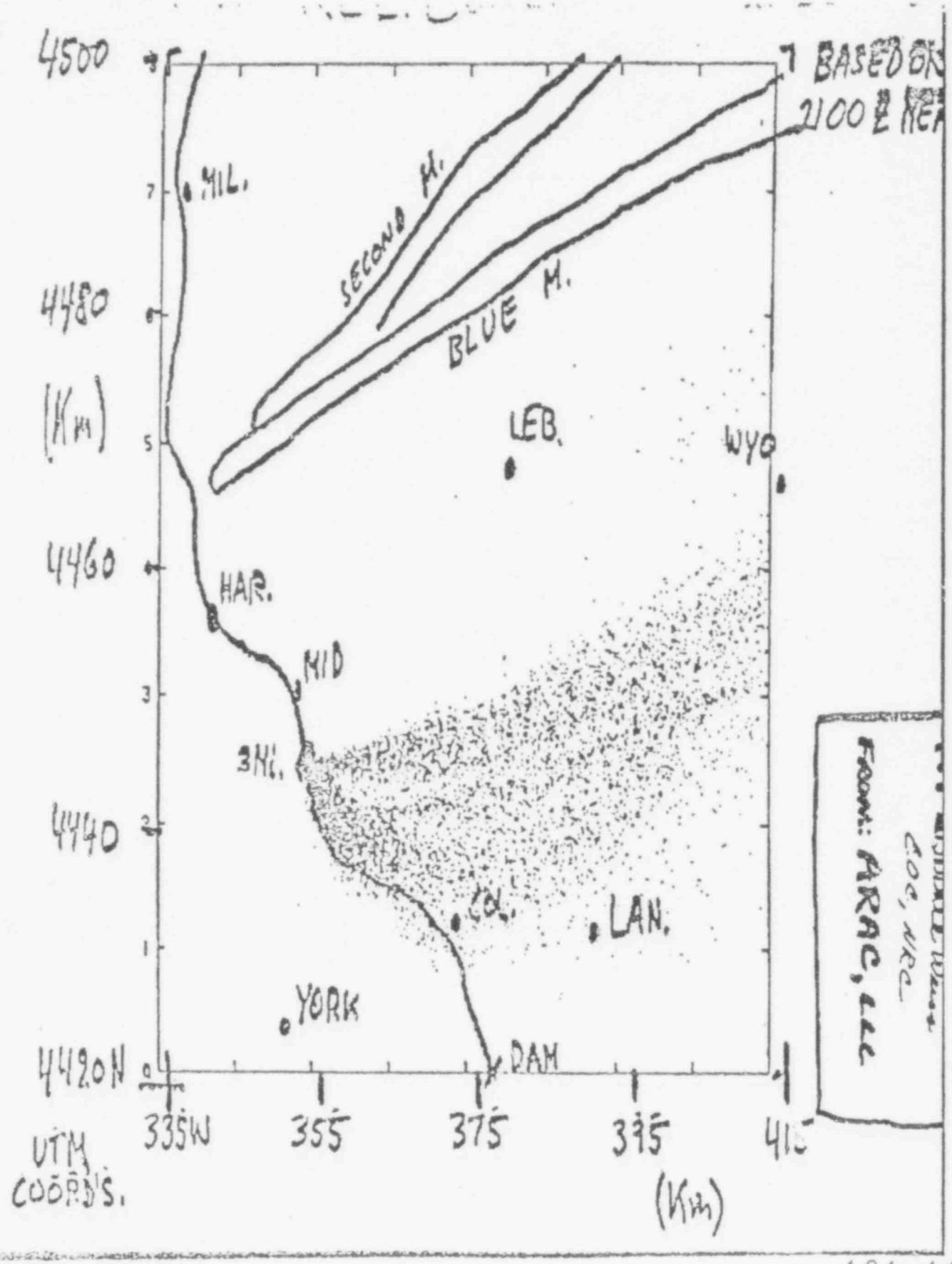
TO: Sunnetwin
EOC, NRC
FROM: ARAC, LLC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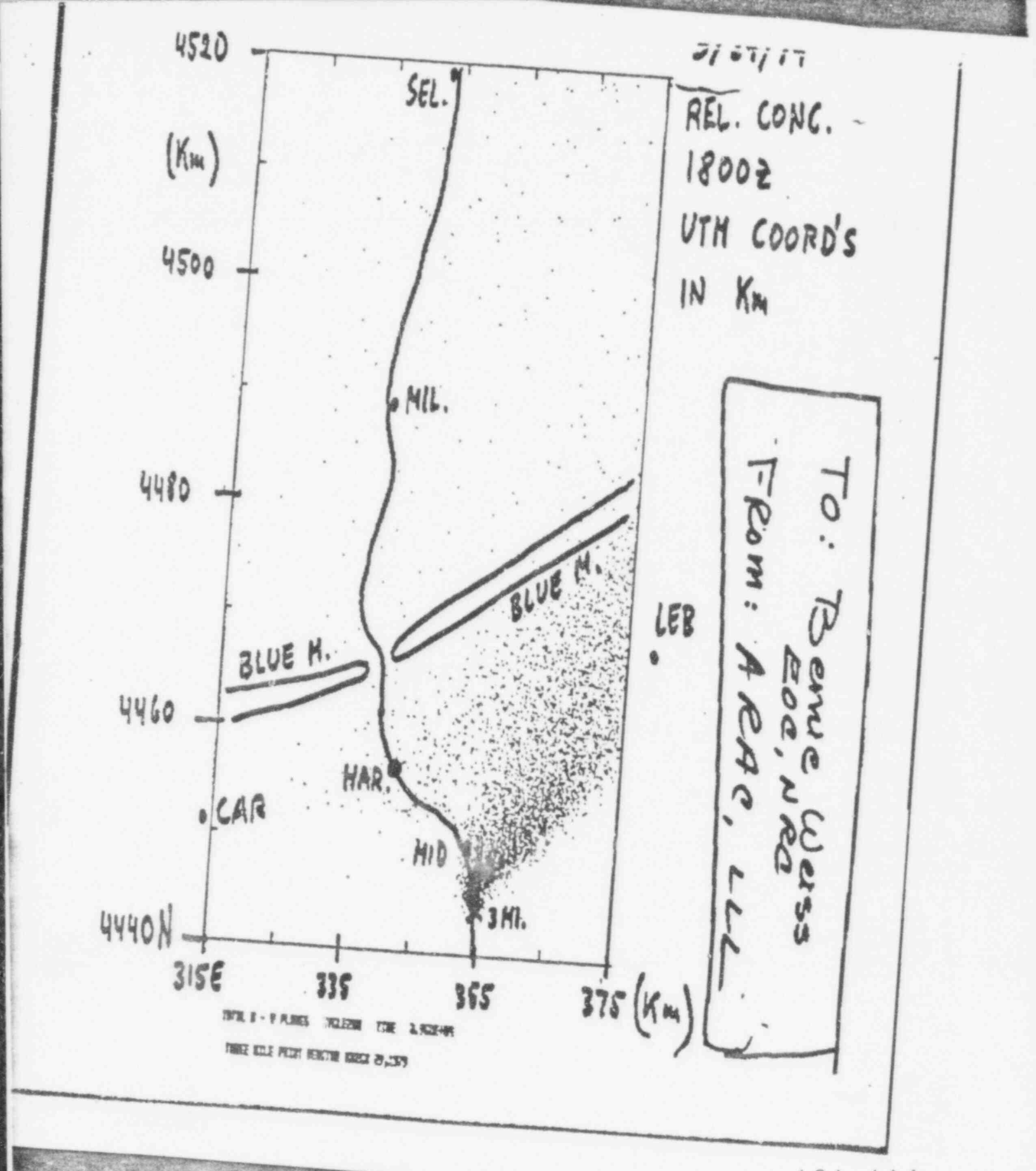
FROM: ARAC, LLC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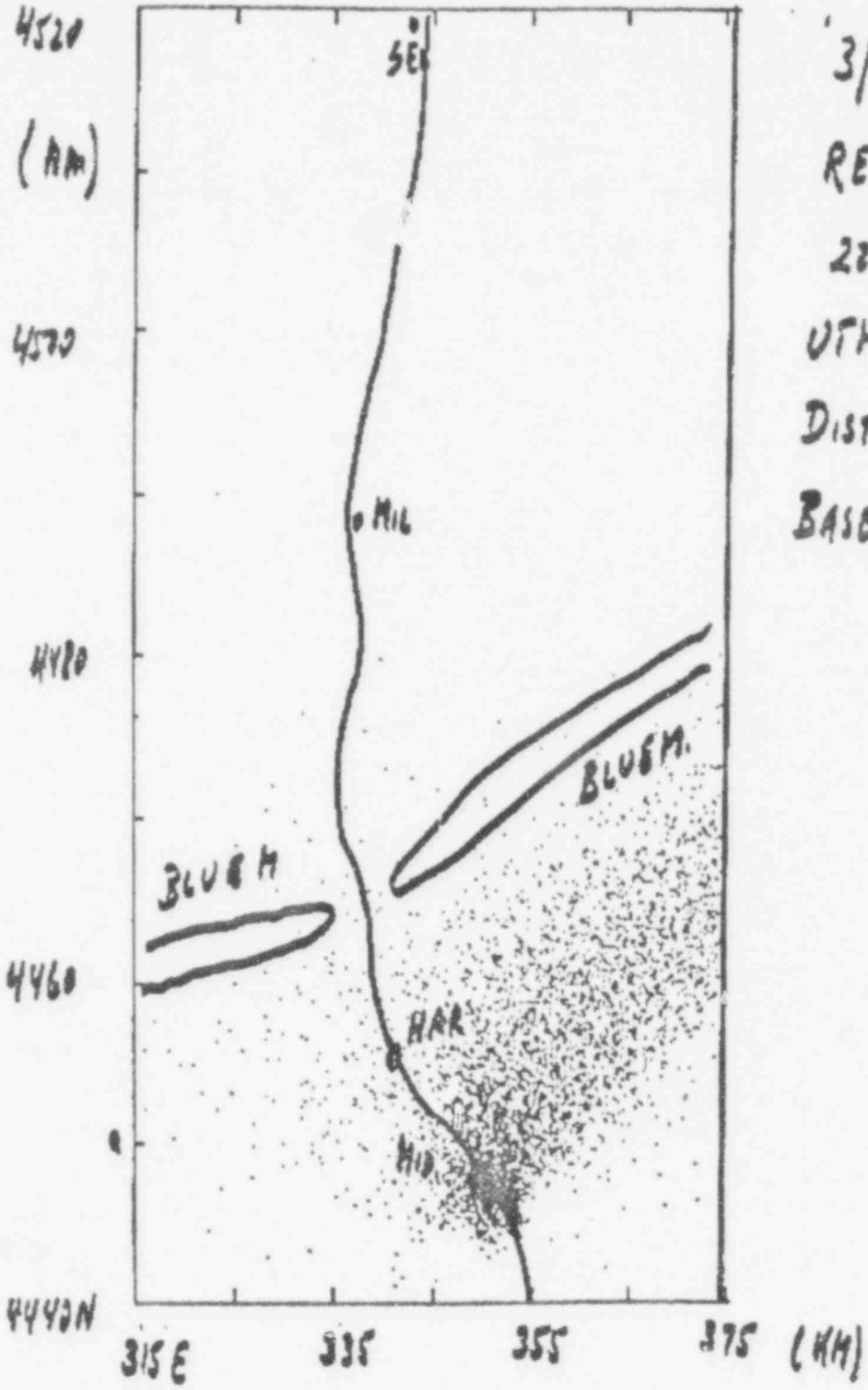
1800Z
UTH COORD'S
IN Km
TO: Bernie Weiss
EOE, NRC
FROM: Area, LLL

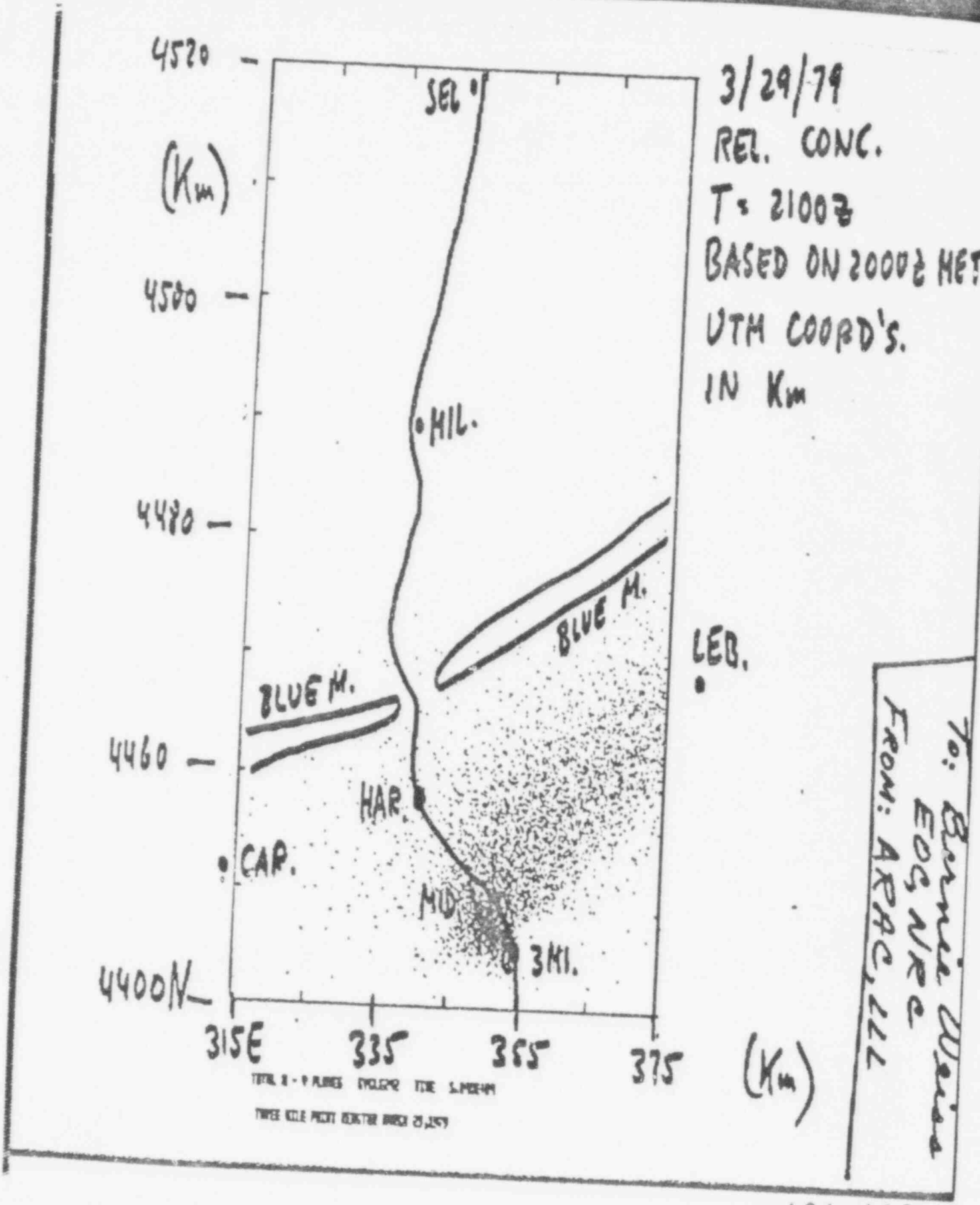


3/29/79
REL. CONC.
2200 Z
UTM COORDS.
DIST IN KM
BASED ON 2100 Z ME

TOTAL 8 - 9 PLANES CYCLE257 TIME 5.[illegible]

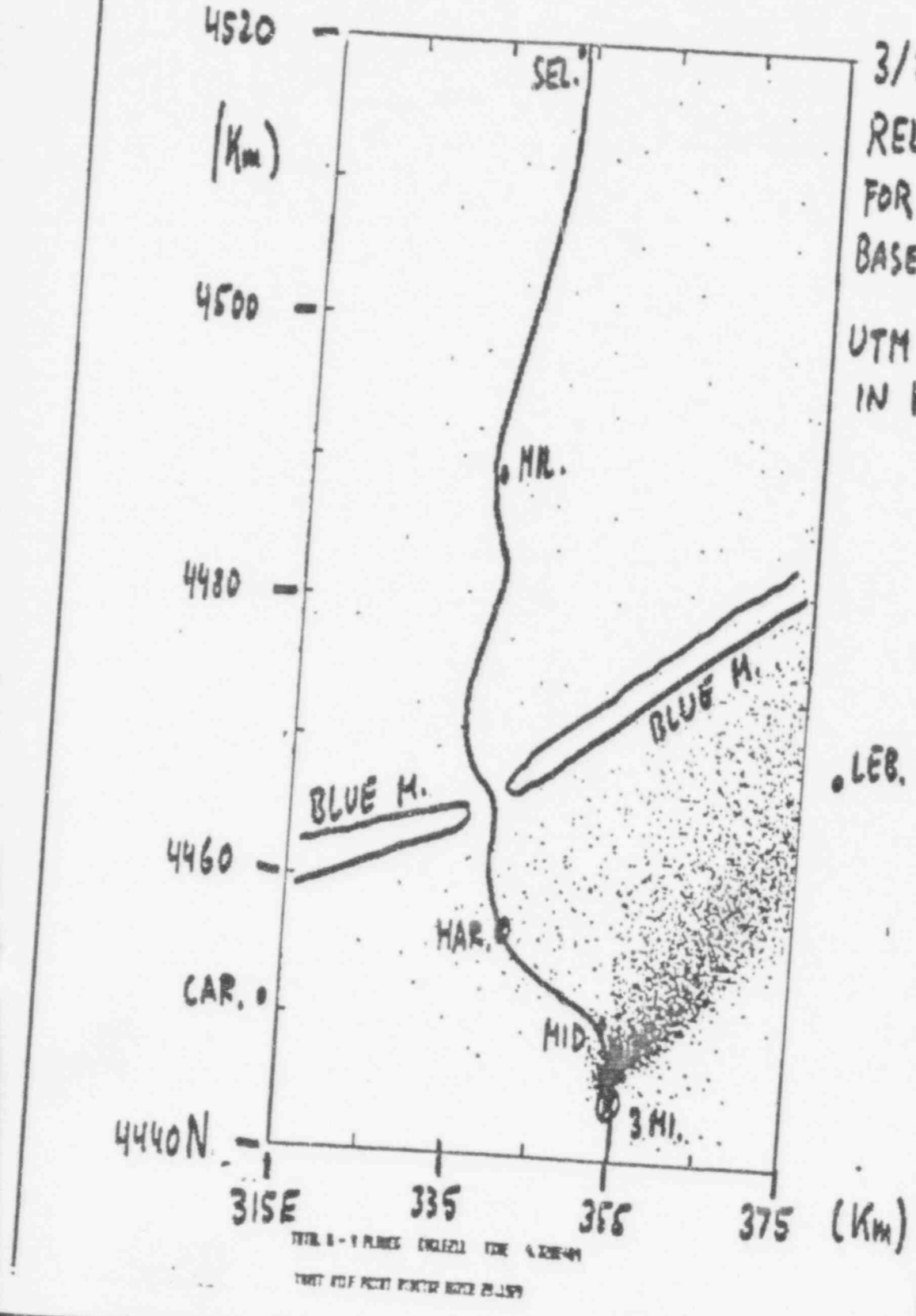
FRAME 6 THREE MILE PRINT REACTOR MARCH 29,1979

To: Bernie Wheeler
EOC NRC
From: ARAC, LLL



3/29/79
REL. CONC.
T = 2100Z
BASED ON 2000Z MET
UTM COORD'S.
IN Km

To: Bernie Weiss
EOS, NRC
From: ARAC, LLL

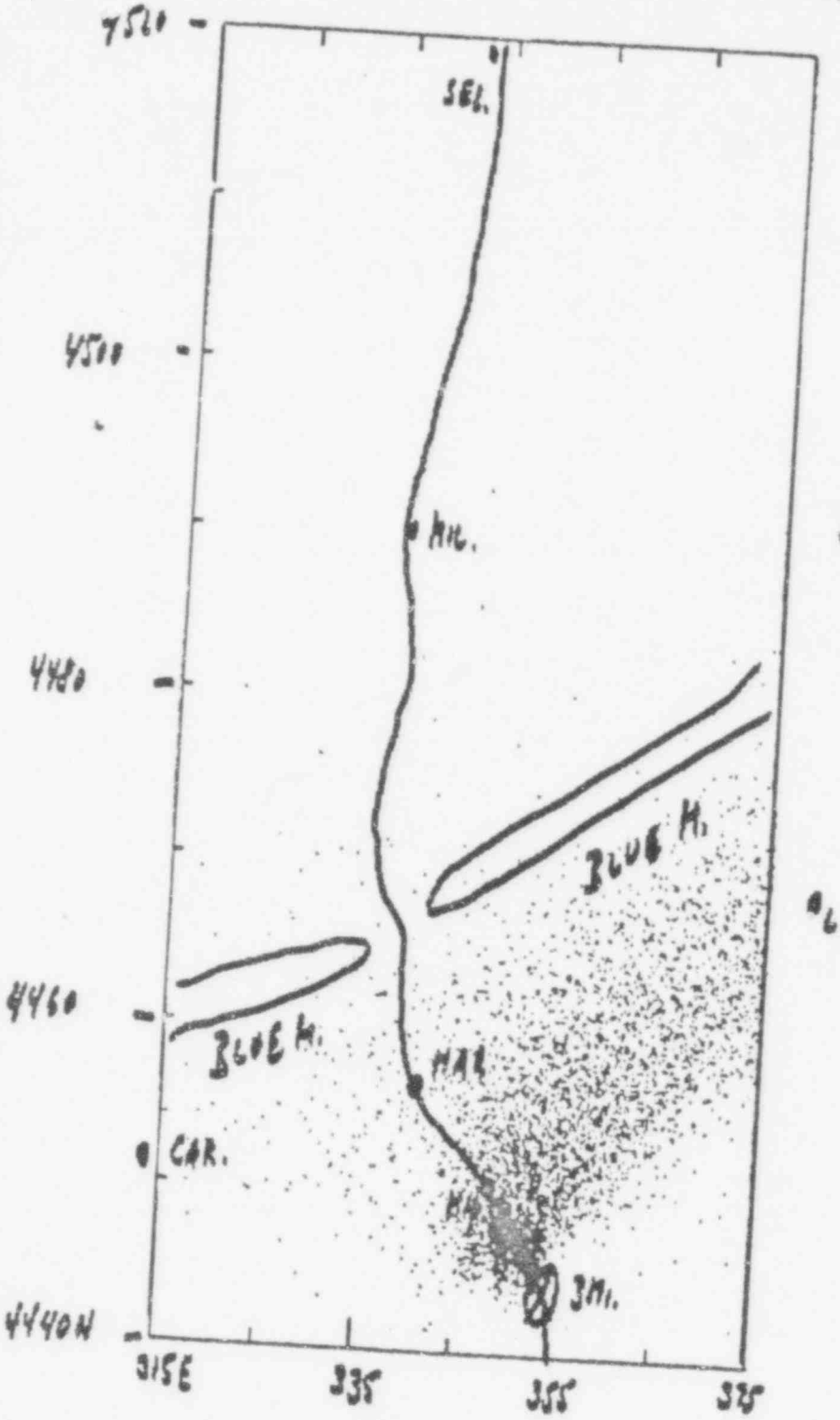


3/29/79
REL. CONC.
FOR 1900 Z
BASED ON 1800Z MET.

UTM COORD'S.
IN Km.

To: Bernie Weiss, NRC EOC
From: ARAC, LLL

181 119



3/29/79
REL. CONC.
0000 Z
UTM COORDS
DIST. IN KM
BASED ON 2300 Z MET

TOTAL 6 - 9 PLANES CYCLE207 TIME 5.120E+09

FIGURE 6 THREE MILE POINT REACTOR MARCH 29,1979

To: Bernie Wilson
EOC, NRC
FROM: ARAC, LLL

81 120

Time	Location	Direct	Iodine
1915	Rt. 441 Boat Dock (tri city)	<.05 mr/hr	
1930	Harrisburg Airport (2 mi NNW)	12 mr/hr	
2010	Harrisburg Airport	2 mr/hr	
2045	Arms reported plume NNW of plant measured out to Harrisburg - over Harrisburg plume ~3000 ft. - wider at top than bottom - ~4-5 miles wide at Harrisburg		
	PIC-6 measurements		
*2300	North of Hughspire (6 miles NNW)	?< 3 mr/hr	
	1 mile north of Hughspire - Kunkel School	13 mr/hr	
	Omstead Plaza (3 miles NNW)	5 mr/hr	
	Harrisburg Airport ~2 miles NNW	12 mr/hr	
*~2000	3 milk samples of Dauphine Co. (State-Ret)		
	4 milk samples, York Co.		<min. det.
	others o.k. Sample 4 mil N of site	MDA 14 pCi	21 pCi
	29 March		
~0030	Flour sample from truck NY from Harrisburg (State)		
0010	Harrisburg airport (NRC) MDA is	1×10^{-9}	no activity MDA
~0000	Stopped dumping water to aux. bldg. Winds from ESE 8 mph		
0130	5 miles N (Honda dealer on Rt. 230)	<0.1 mr/hr	
	1 mile outside Middletown	<0.1	
	Steelton (7 mi.)	<0.1	
0600	Goldsboro - 1 mi. due west	20 mr/hr (20λ)	
0600	W. Side of river	(30λ,β)	7.47×10^{-8}
0715	West side of river	1 mr/hr	
0721	"	2	
0728	"	3	

Time	Location	Direct	Iodine
0735	West edge of island	3.5	
0745	~4 mi N of site	1	
0815	Wind from 150° to 1200 @ 6-8 mph		
0845	Arms in air	-	
0930	Capitol City Airport	0.15 mr/hr	
1000	Observation center	<0.1 mr/hr	
1045	Arms reported plume from camp Hill to Hunnelstown - 0.2 mr/hr at Centerline ~10 mi out from plant, at 1 mi ~ 0.5 mr/hr max; plume constant 500-1000 ft; a gamma spectrum taken near the ground showed no iodine peaks; approached plant from upwind side to within 100 yards of cooling towers - levels seem much lower than yesterday		
1145	Report from Met Ed helicopter using (RO-2) ion chamber w/no window at time flight width of plume 290°-320°		
	0940 - Over stack	500 mrad/hr beta-gamma 120 mr/hr gamma	
	1015 - 2 miles at 700 ft	5 mrad/hr beta-gamma 3 mrad/hr gamma	
	1030 - 4 miles at 750 ft	8 mrad/hr beta-gamma 5 mrad/hr gamma	
1145	Capitol City Weather altitude surface from 150° @ 3 mph 3000 ft from 210° @ 25 mph		
~~1500~~	~~Capitol City Weather~~ ~~at 1500 ft W to E at 8 knots~~		
	~~Middleton~~ ~~at 3000 ft W to E at 10 knots~~		
15	North Parking Lot		
00	Unit 1 Cooling Tower	2 mr/hr 1 mr/hr	

Time	Location	Direct	Iodine
1435	Weather Station (North End)	0.7 mr/hr	
1400	(Helicopter) Royaltron ~ 2 miles NNE	6	
1450	Weather Station (North End)	0.1 mr/hr	
1450	North End of Island following the plume	<0.1 mr/hr	
1500	Capitol Weather at 1500 ft. W to E at 8 knots		
	Middletown at 300 ft W to E at 10 knots		
1530	(Helicopter) Golf course ~ 1-1/2 mile NNE	Bkg	
1530-1540	(Helicopter) Royalton area ~ 2 miles NNE	0.1	
1630	Results of 7-morning 0600 milk samples Dauphin ~~dauphin~~ and York negative, 4 area water samples taken Four		
1600-1630	(Helicopter) York Haven area ~ 2 miles S	<.1 - .1	
1700	120 mil sample of Primary Coolant	1000 R/hr	
1700	ARMS - Two Plumes		
	1. Residual Plume N to NW between Hershey and Mechanicsburg, Pa.	µr/hr	
	Verticle Heights Top - 3200 ft activity greatest Bottom - 500 ft in middle		
	No indication of plume N to NW at 3-4 miles from plant.		
	2. New Plume - S of plant Measurements with G. M. Survey - Window closed		
	- Fenceline - south of plant	10 mr/hr	
	-1/2 mile south of fenceline	0.5 mr/hr	

Time	Location	Direct	Iodine
1720	Observation Center ~1/2 mile East	Bkg	
	Middletown ~2-1/2 miles North	Bkg	
	Goldsboro ~ 1 mile West	Bkg	
2015	ARMS - Circled site in an 8 mile radius and detected only residual pockets measuring 25-50 μr/hr. No plume detected	25-50 μr/hr	
2230	ARMS - Plume touching down detected.		
2230	ARMS - Plume touching down about 2 mile from plant at Hill Island - Plume splits at Hill Island		
2230	ARMS - Width of Plume about equal to width of river. Plume touches down about 1 mile from plant at Hill Island. Plume splits:		
	- at East Shore line	4 mr/hr	
	- at 1 mile N of Hill Island near Olmstead Air Force Base	1 mr/hr	
	- at 5 miles from plant	μr/hr	
	30 March		
0115	Status re State Sampling		
	river water - 4 samples downstream (before 2:30 pm)	negative	
	rain water - overnight from H'burg (MDA 0.06 nano Ci/m^2)	no I-131	
	flour sample - Camp Hill (Bay St. Milling)	negative	
	milk samples - (see above 1630 hrs)		
~0800	results of soil samples		
	sampled 0330 hrs 3/30 Elmford Shopping Plaza, NW of Middletown, 3.5 mi NE of site	No I-131	No other det.
	sampled 1445 hrs 3/29 base of weather station, N end of Island	No I-131	No other det.
0730	rt 441 3 mi from site in Middletown area	2 mr/hr	

RADIOLOGICAL DATA CODES

Information Type

1. Ground survey
2. Helicopter survey
3. In plant survey
4. In plant Area monitor
5. Air sample
6. Milk sample
7. Water sample
8. Soil sample
9. Vegetation sample
10. Thermoluminescence dosimeter (TLD)
11. Radioassay data
12. Information only

Information Source

A NRC

B Licensee (Metropolitan Edison)

C Commonwealth of Pennsylvania

D DOE

E FDA - HEW

F Other (identify by name)

CHRONOLOGY OF RADIOLOGICAL DATA

Date: March 28, 1979

Time	Information Type (see code table)	Information Source (See code table)	Location	Results and/or Description
0730	6	C	Junction PA-441 and I-283	Minimum detectable limit (MDA)
0750	1	B	W. Corner of Island	< 1 mR/hr
0842	1	B	Site perimeter (GE-9)	< 1 mR/hr
0900	5	B	Goldsboro, PA - South	1.2×10^{-9} u Ci/cc (recheck - 1×10^{-10} u Ci/cc
0905	5	B	W. Corner Island	< MDA
0940	5	B	Goldsboro, PA - North	1.2×10^{-8} uCi/cc
1000	1	B	N Parking lot	3 mR/hr
1000	1	B	Base of Containment	50 mR/hr
1029	1, 5	B	North Gate (GE-2)	1 mR/hr, < MDA
1057	1, 5	B	East Island (GE-4)	7 mR/hr, $\leq$ MDA
1100	5	B	NE Unit 1	1.75×10^{-9} uCi/cc
1104	1, 5	B	SE (GE-5, Perimeter)	2 mR/hr, 7.8×10^{-8} - 10^{-9} uCi/cc
1111	1, 5	B	Observation facility, east of site across river	3 mR/hr, 10^{-8} to 10^{-9} uCi/cc
1130	1	C	Rt. 283 near Harrisburg	0.1 - 0.3 mR/hr
1130	1	C	Rt. 230 by river	0.8 mR/hr
1147	5	B	SE (GE-5)	7.8×10^{-8} uCi/cc
1200	5	B	East Island (GE-4)	3×10^{-9} uCi/cc
1200	5	B	North Gate	5.9×10^{-9} uCi/cc
1300	9	C	Unknown	Background
1332	2	B	400 feet above cooling tower	10 mR/hr
1332	1	B	Warehouse	3 mR/hr
1333	1, 5	B	East Island (GE-4)	1 mR/hr, 1.71×10^{-9} uCi/cc
1333	1	B	South Island	0.1 mR/hr
1350	1	B	North Parking lot	15 mR/hr
1355	1	B	North Gate	3 mR/hr
1400	5	B	Unit 1 control room	1.7×10^{-7} uCi/cc particulate
1400	2	B	300 feet above containment	20 mR/hr

CHRONOLOGY OF RADIOLOGICAL DATA (Continued)

Date: March 28, 1979

Time	Information Type (see code table)	Information Source (See code table)	Location	Results and/or Description
1403	1	B	Middletown	1-1.5 mR/hr 3.5×10^{-9} uCi/cc
1403	5	B	Middletown Square	1.2×10^{-8} uCi/cc
1403	1, 5	B	Middletown Swim Club	< 1 mr/hr, 1.4×10^{-9} uCi/cc
1420	5	B	North Gate	6.8×10^{-8} uCi/cc
1432	5	B	Unit 1 control room	6.8×10^{-8} uCi/cc gross iodine
1434	1	B	North Gate	34 mR/hr wind (8 mph from 170°)
1500	1	A	Harrisburg	Background
1500	1	A	Middletown	< 1 mR/hr
1500	11	D	-	ARMS in air (Helicopter)
1630	2	D	N and NE of plant at 16 miles	0.1 mR/hr Xe 133M primarily. (instrument saturates at ~2 miles N of plant)
1630	5	B	North Gate	2×10^{-7} uCi/cc
1715	3	B	Center of door	2 R/hr
	3	B	Door Edge	300 mR/hr
1720	5	B	1 mile N of site	2.3×10^{-9} uCi/cc
	5	B	Roylton - 2 miles North	9.6×10^{-9} uCi/cc
1800	6	C	1 mile from site	No detectable iodine
1815	1	B	Rte 441 and RR tracks ~1/2 mile NE of site	< 1 mR/hr
	1, 5	B	Rte 441 and South Union St. Middletown - 2-1/2 Miles N of site	< mR/hr, MDA
1830	1	B	Rte 441 Boat Club - 2 miles N	< 0.05 mR/hr
1830	1	A	North Gate	13 mR/hr
			North Gate, 1/2 mile NE	26 mR/hr wind 8 to 10 mph from SSE
1330	1	A	Rte 441 Boat Club 2 miles N	0.5 mR/hr
				0.05 mR/hr
				0.05 mR/hr

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CHRONOLOGY OF RADIOLOGICAL DATA (Continued)

Date: March 28, 1979

Time	Information Type (see code table)	Information Source (See code table)	Location	Results and/or Description
1835	1	B	Rte 230 ~3 miles North	< 1 mR/hr
1915	1	B	Rte 441 Boat dock (Tri City)	< 0.05 mR/hr
1917	1	B	NW Boundry	10 mR/hr
1920	1	B	NW Boundry	12 mR/hr
1923	1	B	NW Boundry	20 mR/hr
1923	1	B	Switching tower	3 mR/hr
	1	B	North Gate area	<1 mr/hr
1930	1	B	Harrisburg Airport (2 miles NW)	<1 mr/hr
1930	3	B	Auxiliary Bldg. access corridor	12 mr/hr
	3	B	Auxiliary Bldg exhaust vent area	0.4 mr/hr
	3	B	Reactor Bldg Booster Pump Area	<0.1 mr/hr
	3	B	Personnel Access hatch	600 mr/hr
	3	B	Reactor Bldg dome (unchanged)	20 mr/hr
	3	B	Contractor Bldg. corridor	20,000 R/hr
~2000	5	B	Fuel handling exhaust	8 mr/hr
		C	Dauphine County - 3 samples	500 mr/hr
2010	1		York County - 4 samples	1 sample 4 miles north of plant
	1	B	Harrisburg Airport	21 pci others MDA 14 pci
		B	N of plant at warehouse	2 mr/hr
2015	1	B	Auxiliary Bldg	2-16 mr/hr - varied over period of few minutes
				Licensee reported 5 to 8 people may have received 0.5 to 1 rem dose while laying plastic sheet in Auxiliary Bldg
2045	2	D	NNW of plant to Harrisburg	Over Harrisburg plume is at ~3000 feet. Wider at top than bottom. 4 to 5 feet wide at Harrisburg.

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CHRONOLOGY OF RADIOLOGICAL DATA (Continued)

Date: March 28, 1979

Time	Information Type (see code table)	Information Source (See code table)	Location	Results and/or Description
~2045	3	B	Auxiliary Bldg at 305' level - near puddles	8 Rem/hr
			no puddles	1 Rem/hr
			Auxiliary Bldg. disposal area	2 Rem/hr
			Cooling water for containment fans	4 Rem/hr
			Spent fuel pool area	10 Rem/hr
			Containment dome	20,000 Rem/hr
			Auxiliary Bldg. 281' level near elevator	7-10 Rem/hr
			Auxiliary Bldg. at 305' level - no water	1 Rem/hr
2140	3	B	Reactor Coolant letdown reactor	I-135(?) 2×10^{-2} pCi/cc
			Center door	1.6 R/hr (see 1715 data for comparison)
			door edge	
2200	5	B(?)	Rte I-283 (Brookhaven)	No iodine detected
2300	1	A(?)	N of Hughspire - 6 miles NNW	<3 Mr/hr
			1 mile N of Hughspire - Kunkel School	13 mr/hr
			Omstead Plaza - 3 miles NNW	5 mr/hr
			Harrisburg Airport ~2 miles NNW	12 mr/hr
2330	3	B	Warehouse area	50 mrem - gamma
				365 mrem beta - gamma
2340	6	A	NW of warehouse (GE-10_	Van - MDA (1×10^{-9} iodine)

LOGY OF RADIOLOGICAL DATA

Date: March 29, 1979

Time	Information Type (see code Table)	Information Source (see code Table)	Location	Results and/or Description
0000	12	A		Stopped dumping water to Aux. Bldg. (84,000 cfm)
				1×10^{-6} µCi/cc particulate (questionable
				2×10^{-4} µCi/cc Noble gas
0010	5	A	Harrisburgh Airport	1×10^{-9} µCi/cc (MDA - iodine)
0030	Flour Sample	C	From truck NY from Harrisburgh	No detectable activity
0030	5	A	North Gate	1×10^{-9} µCi/cc (MDA Iodine)
0050	1	A	North Gate	3.5 mR/hr
	1	A	Observation Center	<0.1 mR/hr
	3	A	Control Room	5 mR/hr
	3	A	Unit #1 Machine Shop	40 rem/hr
0130	1	A	5 mile N (Honda dealer on Rte 230)	<0.1 mR/hr
	1	A	1 mile outside Middletown	<0.1 mR/hr
	1	A	Steelton (7 miles)	<0.1 mR/hr
0330	12	A		Restart Aux. Bldg. Vent.
0355	1	A	GE-9 Just W. of Reactor Bldg	20 mR/hr
0400	1	A	GE-10 river bank on Island	1 mR/hr
0410	1	A	GE-8 W. boundary of Island	28 mR/hr
0425	1	A	North Gate	27 mR/hr
0430	1	A	GE-7 Southern boundary of Island	26 mR/hr
0500	6	C	(?)	negative
0600	1	A	Goldsboro- 1 mile due West	20 mR/hr (gamma), 30 mR/hr beta-gamma
0600	5	A	W. side of river	7.47×10^{-8} µCi/cc
0650	3	B	Control room	1 mR/hr
0710	3	B	Personnel hatch	10 mR/hr
0710	12	B		Containment dome monitor failed-logged ou
0715	6	E	Middletown	20 ~~mR/hr~~ µCi/l iodine

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Date: March 29, 1979

Time	Information Type (see code Table)	Information Source (see code Table)	Location	Results and/or Description
0715	1	A	W. Side of River	1 mR/hr
0721	1	A	W. Side of River	2 mR/hr
0728	1	A	W. Side of River	3 mR/hr
0735	1	A	W. edge of Island	3.5 mR/hr
(?)	6	E	Middletown	3.1 PCi/ℓ iodine
0745	1	A	~ 4 miles N. of site	1 mR/hr
0745	3	B	Unit 2 Control room	1.5 mR/hr
0815	12	A		Wind from 150° to 120° 6-8 mph
0830	1	A	Observation Center	<0.1 mR/hr
0845	12	A		ARMS helicopter in air
0925	5	B	Fuel Handling building	1.47×10^{-7} µCi/cc particulate
				1.23×10^{-6} µCi/cc Iodine
				2.78×10^{-5} µCi/cc Noble gas
			Aux. Bldg. Unit 1	1.37×10^{-7} µCi/cc Particulate
				1.15×10^{-6} µCi/cc Iodine
				2.78×10^{-5} µCi/cc Noble gas
			Unit 1 plant Vent.	5.94×10^{-8} µCi/cc Particulate
				8.46×10^{-7} µCi/cc Iodine
				3.1×10^{-5} µCi/cc Noble gas
0930	1	A	Capital City Airport	0.15 mR/hr
0940	2	B	Over stack	500 mR/hr beta-gamma, 120 mR/hr gamma
1000	1	A	Observation Center	<0.1 mR/hr
1014	1	A	GE-10 wedge of Island	2.5 mR/hr beta-gamma
1015	2	B	2 miles at 700'	5 mR/hr beta-gamma, 3 mR/hr gamma
	1	A	GE-4 edge of Island	10 mR/hr beta-gamma
1030	2	B	4 miles at 750'	8 mR/hr beta-gamma, 5 mR/hr gamma
1038	1	A	GE-6 strip of Island	1-5 mR/hr beta-gamma
1045	2	D	Helicopter reading	Plume from Camp Hill to Hunnelstown-0.2 mR/hr at Centerline ~ 10 miles from plant. At 1 mile ~ 0.5 mR/hr max. and plume constant 500 - 1000 feet. A gamma

Date: March 29, 1979

Time	Information Type (see code Table)	Information Source (see code Table)	Location	Results and/or Description
				spectrum taken near ground showed no iodine peaks. Approached plant to within 100 yards of cooling towers.
1140	3	B	Unit 1 Control room	0.1 mR/hr
	3	B	Unit 2 Control room	all area monitors decreasing
1215	12	B		Auxiliary bldg. pumped out plastic sheets being placed on floor.
1315	1	A	N. Parking Lot	2 mR/hr
1400	1(?)	A	Unit 1 Cooling tower	1 mR/hr
1410	2	B	13' above Unit 2 stack	400 mR/hr (?)
1410	3	B	Unit 1 Control room	0.1 mR/hr
			Unit 2 Control room	All area monitors decreasing
1425	1	A	W. side of Island	1 mR/hr
1435	1	A	Weather Station- N end.	0.7 mR/hr
1440	2	D	Roylton ~ 2 miles NNE	6 mR/hr
1450	1	A	SW Side of Island	1 mR/hr
1450	2	D	N. end of Island following plume	0.1 mR/hr
1530	2	D	Golf Course ~ 1-1/2 mile NNE	background
1530 to 1540	2	D	Royalton area ~ 2 mile NNE	0.1 mR/hr
~1600	11	F-Bettis	See below	See below

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Date: March 29, 1979

Time	Information Type (see code Table)	Information Source (see code Table)	Location	Results and/or Description

Sampling of primary coolant water collected 3/29/79 ~ 1600
and analyzed by Bettis on 3/31/79 revealed:

	Coolant Conc. (μCi/cc)	Coolant Inventory (Ci)	Core Inventory (Ci)	Fraction (%)
I-131	2.3×10^{4}	4.3×10^{6}	6.2×10^{7}	6.9
I-133	6.5×10^{3}	2.1×10^{6}	3.5×10^{7}	6
Sr 89/90	5.3×10^{0}	1.7×10^{3}	2×10^{7}	.009
Cs-134	6.3×10^{1}	2×10^{4}	1.3×10^{6}	~2
Cs-136	1.3×10^{2}	5.4×10^{4}	3×10^{6}	2
Cs-137	2.8×10^{2}	9.2×10^{4}	8×10^{5}	~10 (?)
Ba-140	2.0×10^{2}	6.6×10^{4}	1.1×10^{4}	0.06

Bettis Concludes:
Gap to core activity ratios of Ba and Sr indicate no fuel releases but I and Cs ratios indicate releases from the fuel.

~1600	12	B	Plant	3.1 rem and 3.5 rem exposures received by 2 employees during collection of ~~sample~~ Primary Coolant Sample.
	3	B	auxiliary bldg.	300 to 800 mr/hr and up to 100R/hr on hot spots
1600-1630	2	D	York Haven Area N 2 miles South	<0.1 to 0.1 mR/hr
1630	1	A	SW side of Island	4 mR/hr
1650	1	A	N Parking Lot	<1 mR/hr
1700	2	D		Residual plume N to NW between Hershey and Mechanicsburgh: Top of plume, 3200' bottom 500' in middle no plume N to NW at 3-4 miles from plant.

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Date: March 29, 1979

Time	Information Type (See code Table)	Information Source (see code Table)	Location	Results and/or Description
				New plume S of plant read 10 mR/hr (Fenceline) and 0.5 mR/hr at 1/2 mile.
1700	6	B	-------?--------	<0.2 PCi/ℓ iodine (sample suspect)
1700	6	B	1.2 mile N on 441	1.4 PCi/ℓ iodine
1720	1	A	Observation Center 1/2 mile east	background
	1	A	Middletown 2-1/2 mile N	background
			Goldsboro ~ 1 mile N	Background
1730				
1800	6	C	5 miles NW	21 PCi/ℓ iodine
1730 - 1930	1	A	Onsite	Ranged from 0.1 to 1.8 mR/hr
2015	2	D	8 mile radius of site	25 to 50 μR/hr - no plume detected
2230	2	D		Plume touching down 2 miles from plant at Hill Island. Plume splits at Hill Island.
2230	2	D		Plume width about same as river width and touches down 1 mile from plant at Hill Is plume splits at: East shore line 4 mR/hr 1 mile N of Hill Island Near Olmstead AF Base - 1 mR/hr 5 miles from plant per/hr
--?---	5	B	N Weather Station	22.6 PCi/M^3
	5	B	2.8 Miles SSE	20.1 PCi/M^3
	5	B	0.4 Miles E observation center	20.3 PCi/M3
	5	B	15 miles NW	1.83 PCi/M^3
	5	B	9 miles SE	0.27 PCi/M^3
	5	B	1.6 Mile ~~SWS~~ WSW	28.9 PCi/M^3
	5	B	13 Miles S	0.14 PCi/M^3

181 134

Time	Information Type (See Code Table)	Information (See Code table)	Location	Results and/or Description
March 1979 to 3/29/79	10	B	observation center 0.4 mile E	0.5 mr
	10	B	Drigrers Farm 9 miles SE	8 mr
	10	B	Route 241	6 mr
	10	B	West Fence	6 mr
1st qtr 1979 to 3/29/79 3 pm	10	B	South Island 1.1 Mile SW	23 mr
	10	B	Shelleys Island 0.4 Mile WNW	7 mr
	10	B	Laurel Road 0.5 Mile ENE	17 mr
	10	B	Kohr Island 0.4 Mile NNW	8 mr
	10	B	Shelley Island South 1.1 Mile SSW	7 mr
	10	B	Goldsboro - 1 mile West	15 mr
	10	B	Middletown Substation - 2.6 miles N	17 mr
	10	B	North York Substation 1.4 miles N	9 mr
	10	B	Columbia 1.5 miles SE	22 mr

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Time	Information Type (See Code Table)	Information (See code table)	Location	Results and/or Description
3/2979 3/31/79 Total time 36-48 hrs	10	B	North Bridge 0.7 Miles NNE	37 mr
	10	B	North Weather Station on the Island - 0.4 Miles N	81 mr (on site meas.)
	10	B	Falmouth 2 miles SSE	12 mr
	10	B	Shelley Island Center 0.41 Mile W	7 mr
	10	B	Sta. 152 - 0.4 miles N	0.394 mr/hr (rate
	10	B	Sta. 252 -	0.642 mr/hr (rate)
	10	B	Sta. 452 0.3 mile ENE	2.4 mr/hr (rate)
	10	B	Sta. 553 0.2 mile E	0.962 mr/hr (rate)
	10	B	Sta. 8C1 - 2.3 miles SSE	0.221 mr/hr (rate)
	10	C	Sta. 952 - 0.4 mile S	0.507 mr/hr (rate)
	10	B	Sta. 1151 - 0.1 Mile SW	2.18 mr/hr (rate)
	10	B	Sta. 1651 - 0.2 mile NNE	1.72 mr/hr (rate)

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Time	Information Type (See Code Table)	Information (See code table)	Location	Results and/or Description
3/29/79 3/31/79 Total time 36-38 hrs	10	B	Sta. 1452 - 0.4 mile WNW	0.895 mr/hr (rate)
	10	B	Sta. 4A1 - 0.5 mile ENE	0.653 mr/hr (rate)
	10	B	Sta. 5A1 0.4 mile E	0.163 mr/hr (rate)
	10	B	Sta. 6A1 - 0.4 mile NNW	0.803 mr/hr (rate)
	10	B	Sta. 10B1 - 1.1 mile SSW	0.286 mr/hr (rate)
	10	B	Sta 12B1 - 1.6 mile WSW	0.183 mr/hr (rate)
	10	[illegible]	Sta. 1<1 - 2.6 miles N	0.069 mr/hr (rate)
	10	B	Sta. 7F1 - 9 miles ENE	0.028 mr/hr (rate)
	10	B	Sta. 4G1 - 10 miles ENE	0.031 mr/hr (rate)
	10	B	Sta. 9G1 - 13 miles NW	0.04 mr/hr (rate)
	10	B	Sta. 15G1 15 miles NW	0.05 mr/hr (rate)
	10	B	Sta. 7G1 - 15 miles SE	0.04 mr/hr (rate)

CHRONOLOGY OF RADIOLOGICAL DATA

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
0240-0250	2	B	Grid S-900'	-	< 0.1	-
	2	B	Grid SW-900'	-	< 0.1	-
	2	B	Grid NW-800'	-	< 0.1	-
0241	2	B	Grid NE-900'	-	0.4	-
	2	B	Grid E-900'	-	3.0	-
	2	B	Grid E-800'	-	1.5	-
0243	2	B	Grid NE-900'	-	4.0	-
0257	2	B	Grid ENE-700'	20 mR/hr (¼ mi. from Unit 1 cooling tower)		
	2	B	Grid ENE-700'	15 mR/hr (between cooling tower and stack)		
0258	2	B	Grid ENE-650'	50 mR/hr (between cooling tower and stack)		
	2	B	Grid E-650'	-	60	-
0300-0330	2	B	Reflight of above locations at 650' and 1400'	All readings less than 1 mR/hr		
0330	8	C	Edgewood Shopping Plaza 3.5 mi NE of site	MDA for iodine		
0445	1	B	GE-5, 1600' SSE	0.14	-	0.08

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CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
0435	1	B	GE-8, 875' SW	0.3	-	0.01
0437	1	B	GE-7, 2150' S	2.0	-	0.5
0441	1	B	GE-6, 2250' SSE	0.7	-	0.2
0450	1	B	GE-3, 1375' NE	0.6	-	0.04
0458	1	B	GE-9, 650' WSW	< 0.01	-	< 0.01
0500	1	B	GE-10, 625' WNW	0.01		< 0.01
0502	1	B	GE-1, 1375' N	0.03	-	< 0.01
0504	1	B	GE-2, 1750' NNE	0.01	-	< 0.01
0615	4	B	Station Vent - HPR-219	30,000 cpm	-	-
	4	B	Control Room Air Intake - HPR-220	200 cpm	-	-
	4	B	Fuel Handling Building Exhaust (upstream of filters) - HPR-221A	30,000 cpm	-	-
	4	B	Fuel Handling Building Exhaust (downsteam of filters) - HPR-221B	17,000 cpm	-	-

CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
	4	B	Reactor Building Purge Duct H - HPR-224	400,000 cpm	-	-
	4	B	Reactor Building Purge Duct A - HPR-225	50,000 cpm	-	-
0615	4	B	Makeup Tank Area	-	6000	-
	4	B	Reactor Coolant Evaporation Control Panel Area	-	50	-
	4	B	Reactor Building Purge Duct B - HPR-226	200,000 cpm	-	-
	4	B	Auxiliary Building Exhaust Duct A - HPR-222	300 cpm	-	-
	4	B	Auxiliary Building Exhaust Duct B - HPR-228	40,000 cpm	-	-
	4	B	Reactor Building Air Sample Line - HPR-227	$< 10^6$ cpm	-	-
	4	B	Control Room No. 2	-	< 1.0	-
	4	B	Dome	-	5000	-
Unknown	5	C	Unknown	MDA	-	-

CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
Unknown	7	C	Unknown	MDA	-	-
0730	1	C	Rte. 441 - 3 mi. in Middletown		(ground level)	2
0940	1	B	GE-5, 1600' SSE	4.0	-	0.1
	1	B	GE-8, 875' SW	0.3	-	0.1
	1	B	GE-9, 650' WSW	0.5	-	0.2
0950	1	B	GE-5, 1600' SSE	0.5	-	0.1
1117	1	B	GE-5, 1600' SSE	0.8	-	0.2
1000	1	B	GE-9, 650' WSW	7.0	-	4.0
	1	B	GE-1, 1375' N	-	-	0.1 - 0.2
	1	B	GE-2, 1750' NNE	-	-	0.1 - 0.2
1015	1	B	GE-9, 650' WSW	25	-	9
	1	B	GE-8, 875' SW	13	-	6
1000	2	B	Over Reactor Bldg. at 600'	1200	-	-
	2	A	½ mi. SW at 300'	Up to 450 mR/hr at 600' highest reading in plume.		

CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
1030	2	A	½ mi. ESE at 300'		2 mR/hr	
1045-1145	2	A	¼ mi. radius at 300'	20-30 mR/hr (peak in W quadrant)		
	2	A	¼ mi. radius at 500'	8 mR/hr (peak in W quadrant)		
	2	A	½ mi. radius at 500'	1 mR/hr (peak in SSW quadrant)		
	2	A	1 mi. radius at 500'	0.5-1.0 mR/hr (peak in SW to NNE)		
	2	A	1 mi. radius at 1500'	-	0.1 - 0.15	-
	2	A	3 mi. radius at 600'	0.5 - 1.0 mR/hr (peak in SE)		
1058	2	B	Over Island at 500'	-	130	-
1100	2	B	E of Island at 700'	-	0.8	-
	2	B	North Bridge at 700'	-	0.7	-
1102	1	B	GE-1, 650' WSW	6	-	4
1110	2	B	NW side of Island at 700'	-	0.7	-
1117	1	B	GE-9, 650' WSW	5	-	1.5
	1	B	GE-8, 875' SW	8	3.5	-
1130	1	B	GE-9, 650' WSW	15	5	-
1135	2	B	SW Quadrant of Plant at 600'	80-90 mR/hr (ground level 1.3 mR/hr)		

CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
1138	1	B	GE-10	12	2	-
1159	1	B	GE-1	8	1	-
1203	1	A	Unit 1 Cooling Tower	9	3	-
1204	1	A	North Gate	2	0.5	-
1208	1	B	GE-3	5.5	1.5	-
1209	1	B	GE-1	6	1	-
1210	1	A	North Gate	2	1	-
1213	1	B	GE-1	4	0.7	-
1214	1	B	GE-3	5	1.5	-
1219	1	B	GE-3	3	1.2	-
1223	2	A	N. Parking lot at 500'	4.7	-	-
	2	A	N. Parking lot at 150'	5.7	-	-
1227	2	A	Over Screen House at 450'	11	-	-
1230	2	A	Over Screen House at 500'	10-15	-	-

CHRONOLOGY OF RADIOLOGICAL DATA (continued)

Date:

Time	Information Type (see code table)	Information Source (see code table)	Location	Results and/or Description (beta-gamma)	(mR/hr)	(gamma)
1230	2	A	Over Shelley Island at 550'	20	-	-
	1	B	GE-9	3.5	mR/hr 8	-
1231	2	A	Over Screen House at 450'	50	-	-
1232	2	A	Over Screen House at 450'	30	-	-
1233	1	B	GE-9	17	5	-
1234	2	A	MCDT at 450'	40-75	-	-
1236	2	A	Over Reactor Bldg at 500'	50-70	-	-
1241	1	B	GE-7	5	2	-
1243	1	B	GE-8	18	5	-
1245	1	B	GE-9	4	0.5	-
1249	1	B	GE-8	18	3.5	-
	1	B	GE-7	1.5	0.5	-

CHRONOLOGY OF .OLOGICAL DATA

Date: April 2, 1979

Time	Information Type (see code Table)	Information Source (see code table)	Location	Results and/or Description
0317	2	B	600'-700'above	Ranged from <0.1
0346			on-site location	Mr/hr γ above North Gate
				to 1.5 Mr/hr γ over
				Direct cooling lower
0300 to 0400	2	D	up to 800' at	Read up to 1.5 Mr/hr
			2 nuclear dirtance	down to 0.5 Mr/hr at
				2 nuclear dirtance
0600 to 0615	2	D	NW of plant	Forward to 1 to 1.5 Mr/hr
				readings.
1148 to 1445	2	B	North end of	Read from 20 Mr/hr
			Island, over Unit	over Unit 2 screen
			2 screen house, and	House (1330 hours) to
			over parking lot	<0.1 Mr/hr over
			(450-500)	parking lot.
Unknown	6	E	Various farm	23 milk samples
			locations	ranged from 30 p Ci/e
				I-131 and 37 p Ci/e Cs 177
				(york, Pennslyannia) to MDA.

Date: April 2, 1979

Time	Information Type (see code Table)	Information Source (see code table)	Location	Results and/or Description
				one Hershey Mar also read MDA.
Unknown	7	E	Columbia, York Marietta, and Harrisburg, Pennslyannia	ACE MDA.
AM to PM	1	A	15 check points on both sides of rever	dings ranged from 0.03 to 0.05 Mr/hr γ
1633-2113	1	B	at 20 locations on site	readings ranged from 0.8 Mr/hr BY and 0.1 γ to beach ground
PM	1	A	15 check points on both sides of rever	Readings unchanged from previous result (erreritially background)
21.9 to 23.5 total hour	10	A	NRC locations	Ranged from 0.13 MR to 9.1 MR. tot
0115 to 0105 on 4/3/79	1		GE-1 to GE-10	readings ranged from 11 mr/hr Bγ and 1.6γ (GE-9 at 0330) to 1Bγ and <0.18)
0119 to 0113 on 4/3/79	1	B	on site locations	173 readings by licenseese ranged from 40,000 R/br on the reactor bldg. down to ground.

FROM CHRONOLOGY

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Beta - Gamma readings
Gamma readings

March 28, 1979

1830 North Gate — 13 mr/hr Gamma
26 mr/hr Beta - Gamma

North Gate (½ mile N'E) — 0.005 mr/hr Gamma
0.5 mr/hr Beta - Gamma

2330 Warehouse area — 50 mr/hr Gamma
365 mr/hr Beta - Gamma

March 29, 1979

0600 Goldsboro (1 mile due West) — 20 mr/hr Gamma
30 mr/hr Beta - Gamma

0940 over Stack (Helicopter) — ~~500~~ 120 mr/hr Beta - Gamma
500 mr/hr Beta - Gamma

1014 GE-10 Wedge of Island — 2.5 mr/hr Beta - Gamma
10 mr/hr Beta - Gamma

1015 2 miles at 700' (Helicopter) — 5 mr/hr Gamma
8 mr/hr Beta - Gamma

1034 GE-6 strip of Island — 1.5 mr/hr Beta - Gamma

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ARRIVAL OF NRC PERSONNEL AT THREE MILE ISLAND SITE

WEDNESDAY, MARCH 28, 1979

1005	FIVE INSPECTORS, INCLUDING HEALTH PHYSICISTS WITH RADIATION MONITORING EQUIPMENT ARRIVE SITE
1100	INVESTIGATOR PLUS ONE INSPECTOR LEAVE REGION I -- ARRIVE SITE
1430	BROOKHAVEN RADIOLOGICAL ASSISTANCE TEAMS (2) ARRIVED CAPITOL CITY AIRPORT
	ARM'S AIRCRAFT ARRIVED AND BEGAN TRACKING AND MEASURING PLUME
1915	NRC MOBILE LAB ARRIVES AT SITE -- TOTAL REGION I PERSONNEL ON SITE AT THIS TIME IS 11

THURSDAY, MARCH 29, 1979

1200	NRR TEAM (8 PEOPLE) ARRIVE AT SITE
1200 - 1430	ADDITIONAL REGION I PERSONNEL ARRIVE -- TOTAL NRC ON SITE BY 1530 IS 29

FRIDAY, MARCH 30, 1979

1400	NRR TEAM (13 PEOPLE) ARRIVED AT SITE
THROUGHOUT DAY	ADDITIONAL NRC HQ AND REGION I PERSONNEL ARRIVE AT SITE

AS OF FRIDAY EVENING, MARCH 30, 83 NRC PERSONNEL ARE ON SITE AND IN VICINITY

1181 148

Sent to Crew

PAUL GUINN

Date Sent	Description	Chronology Date
~~4/9/79~~	~~Draft Chronology for 3/29/79~~	
~~4/9/79~~	~~Draft Chronology for 3/30/79~~	
4/9/79	Draft " for	3/31/79 (thru folder V)
4/9/79	" " "	3/31/79 (thru folder VI)
4/9/79	" " "	3/31/79 (thru folder VII)
4/10/79	" " "	3/31/79 (remainder)
4/10/79	" " "	4/1/79 (thru folder III)
4/10/79	" " "	4/1/79 (thru folder IV)
4/10/79	" " "	4/1/79 (thru folder VI B)
4/10/79	" " "	4/1/79 (remainder)
4/11/79	3/30/79 (thru 1259 hrs) to Crew	
4/11/79	3/30/79 (thru 1400 hrs) to Crew	
4/11/79	Draft of 4/2/79 Chronology sent to Crew	

ATTACHMENT TO CHMN. TESTIMONY
John Davis

ARRIVAL OF NRC PERSONNEL AT THREE MILE ISLAND SITE

Wednesday, March 28, 1979

8:45 am	Five inspectors, including health physicists with radiation monitoring equipment leave Region I for site -- arrived site 10:05 am
0900	Investigator plus one inspector leave Region I -- arrived site 11:00 am
0900	Region I verifies that Brookhaven Radiological Assistance Team has been alerted -- 2 teams organized and standing by -- later dispatched arriving Capitol City Airport 2:30 pm, begins sampling
10:00 (approx.)	ARM's aircraft requested by NRC -- arrived 2:15 pm and begins tracking flights
7:15 pm	NRC mobile lab arrives at site -- total Region I personnel on site at this time is 11

Thursday, March 29, 1979

12:00 am (approx.)	NRR team, Vollmer plus 7 arrive at site
12:00 am -2:30 pm	Additional Region I personnel arrive -- total NRC on site by 3:30 pm is 29 (21 I&E and 8 NRR)

Friday, March 30, 1979

2:00 pm	Denton plus 12 arrived by helicopter at site
Throughout day	Additional NRC HQ and Region I personnel arrive at site

As of Friday evening, March 30, 83 NRC personnel are on site and in vicinity (51 I&E, 4 State Programs, 3 Public Affairs, and 25 NRR)

As of April 9, total NRC personnel at site was 101

Not ATTACHED TO CHMN. TESTIMONY

Departures from Region I/Arrivals at TMI Site

Vehicle	No. People (& type)	Depart	Arrive	Cum. Total Onsite
1	5 (4 HPs, 1 ops & Equip)	3/28 0845	1005	5
2	2 (Investigator, ops)	0900	1100	7
3	1 (ops)	1300	1500	8
4	1 (Sec. Ch.)	1800	2030	9
5 (van)	2 (Sec. Ch., lab officer) (Fr. Millstone)	0820	1915	11
6	3 (HP)	3/29 0900	1200	14
7	3 (ops)	0900	1300	17
8 (helicopter)	2-4 (RD, BC)	1430	~1600	19
9	2 (HPs)	1330	1530	21

NOTE: People from other regions started arriving about 1500 on 3/29.

SKConver, 4/9/79
Per telecon with
E. Bruner (Reg. 1)

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