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Health and Safety Division

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U. S. Weather Bureau

METEOROLOGICAL CONDITIONS DURING THE RALA RUN OF MARCH 26, 1963

NFI:CEB

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Atmospheric stability followed a normal diurnal pattern with strong lapse conditions being established by 0900 MST. Surface winds were light northeasterly until about 1130 MST when they switched to light mph, southwesterly. By 1200 noon the winds at both Central Facilities and Grid No. 3 had increased to more than 10 mph, so word was passed to L. J. O'Neill that strong lapse conditions and southwest winds at 10-12 mph existed in the CPP area and good diffusion conditions existed. Table I shows the hourly values of wind and stability conditions at Central Facilities and wind conditions at Grid No. 3. The diffusion parameters applicable to this case are  $n = 0.2$ ,  $U = 5 \text{ m sec}^{-1}$ ,  $h = 75 \text{ m}$ , and  $C = .26$ .

Table I. Hourly values of meteorological parameters at Central Facilities and Grid No. 3, March 26, 1963.

Hours (MST)	Central Facilities		Grid No. 3
	250' wind Dir*/Vel**	Temperature Difference (°F)	100' wind Dir*/ Vel**
1100	12/01	5' - 250' 21.3	02/03
1200	10/01	-1.3	M/07
1300	10/16	-2.2	11/12
1400	10/22	-2.9	11/19
1500	11/26	-2.7	11/23
1600	11/28	-2.4	11/24

M = missing

\*Wind Direction = nearest point of compass (16 points)

\*\*Wind Velocity = miles per hour

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CC: Health Physics ✓

REPOSITORY INEL

COLLECTION RALA  
#22305 FRC#430780073

BOX No. File: USWB

FOLDER meteorological conditions for the  
RALA Run 2-12-63 3/26/63

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