

C. Long, Chief, PWR Branch No. 2, DPL

## OCONEE THYROID DOSE DUE TO POST LOCAL CONTAINMENT PURGING

As requested by your branch we have calculated the thyroid dose at the exclusion radius boundary due to purging the containment. The resulting dose is 38 rem based on the following assumptions:

- Purging begins on the fifteenth day following the loss of coolant.
- 2. Continuous purging at 21 SCFM.
- Only organic iodide remains since the buffered sprays remove essentially all the elemental iodine (equivalent to a spray dose reduction factor of 10).
- 4. Charcoal filter efficiency = 70% for organic iodides
- 5. Meteorology is the same as 4-30 day standard staff model for the duration of purging  $(X/Q = 5.24 \times 10^{-6} \text{ sec/m}^3)$ .
- 6. Breathing rate is constant (2.32x10-4 m3/sec).

R. P. Grill, Chief Site Safety Branch Division of Reactor Licensing

cc: A. Schwencer, DRL

OFFICE >	DRL	DRL			
	RPGH11:bc				
DATE	8/2/71		100		

8001070578

A