

JASSKovholt, Assistant Director for Operating Reactors 21 01 HRU: J. M. Hendrie, Deputy Director for Technical Review, L.J. SEONSE TO TARK/67/1- UNDIAN POTNE FILMER TECHNICAL SPECIFICATIONS requested, we have reviewed the Indian Roiner 20 futeer Technical cification proposal. As detailed in the enclosure, the reasons sented do not justify a change to the Technical Specifications are have also found that the present Technical Specifications are dequate. The generalized Technical Specifications presented in dequate: The generalized technical score D. Skovholt: ((encilence) January 117, 197/4) memorof: H. Denton: co D. Skovholt: ((encilence) sponsetto TAR 7/30 = Technical Specificacions for instabled cer Systems.)) for information of the systems should be ap

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Our assistance with be available when it is time to explain the decails of frechnical Specifications to the applicance Dr. Roger Zavadosici of the Accident Analysis Branch performed athles vdecauls of Technical



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SPECIFIC RESPONSE TO POINTS RAISED IN R. E. ADAMS ARTICLE ENTITLED, "MONITORING OF DEGRADATION OF IMPREGNATED ACTIVATED CARBON IN STANDBY AIR FILTRATION SYSTEMS OF PWR CONTAINMENTS"

- 1. It appears implicit in the discussion that qualification tests need only be performed once for a particular type of activated carbon. Significant variations in methyl iodine removal efficiency have been observed for activated carbons of a specific type (as BC-727 MSA-85851, etc.). In addition, some manufacturers have changed their process since the ORNL tests were performed. Therefore, Regulatory Guide 1.52 recommends and current technical specifications require that qualification tests be performed on each lot of activated carbon purchased.
- 2. Figure 1, described in the section entitled "Laboratory Testing of Exposed Carbon Samples," is at best, a misinterpretation of the existing data. If all the applicable data are plotted on such a graph (see the Proceedings of the 12th AEC Air Cleaning Conference, "Correlation of Radioiodine Efficiencies Resulting from a Standardized Test Program for Activated Carbons," by Rivers et al). No clear correlation can be made. Adams selectively plots a few points which support his thesis.

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3. Adams suggests that high temperature - high relative humidity test rigs are not presently available in the U.S.. At least two companies presently perform such tests on a routine commercial basis.

4. Adams contends that preheating of exposed activated carbon for testing purposes enhances the methyl iodine removal efficiency. DP-1213, Figure 2, p. 10, shows that a relatively small fraction of methane and ethylene are released at temperatures near 130°C. Figure XII from p. 518, of the Proceedings of the Eleventh AEC Air Cleaning Conference, shows the difference between iodine-retention efficiency obtained at 30°C and 50% RH and 100°C, 100% RH for activated carbon which had seen continuous service. In all cases, the high temperature tests yielded lower iodine retention efficiency. Twenty-five degrees C and 70% RH is a test peculiar to ORNL and does not conform to ASTM D-28 testsconditions.

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