

REQUEST FOR TECHNICAL ASSISTANCE

DATE: ~~8/24/92~~ 9/4/92

TO: John E. Glenn, Chief, Medical, Academic, and Commercial  
Use Safety Branch, NMSS

FROM: *Francis M. Coath*  
Ronald R. Bellamy, Chief, Nuclear Materials Safety and  
Safeguards Branch, Region I

LICENSEE: INS Corporation LICENSE NO.: 37-23341-01

Control No. NA (enclosed)

☒ 1) Letter dated 5/29/92 (enclosed) 2) Memo Bellamy to Glenn dated  
8/24/92.  
Suggested change in licensing procedure (enclosed) 3) Draft letter to INS Corporation from  
Region I.  
Other (see remarks)

Problem/Issue: Assistance in review of methods used in pathway analysis  
performed by INS Corporation.

Action Required: Review models used by INS and draft response letter from Region I  
to INS.

Alternatives Considered: \_\_\_\_\_

Recommended Alternative: \_\_\_\_\_

Remarks: \_\_\_\_\_

Regional Reviewer: E. Ullrich  
Reviewer Code: Q5  
Reviewer Phone No.: (215) 337-5040

SEP 04 1992

Docket No. 030-20934

License No. 37-23341-01

TECHNICAL ASSISTANCE REQUEST

MEMORANDUM FOR: John E. Glenn, Chief  
Medical and Commercial Use Safety Branch  
Division of Industrial and Medical Nuclear Safety, NMSS

FROM: Ronald R. Bellamy, Chief  
Nuclear Materials Safety Branch  
Division of Radiation Safety and Safeguards, RI

SUBJECT: REVIEW OF "RADIOLOGICAL IMPACTS OF EFFLUENT  
RELEASES TO THE ATMOSPHERE AND SANITARY  
SEWER FROM INTERSTATE NUCLEAR SERVICES"

Interstate Nuclear Services (INS) agreed to produce an analysis of the radiation doses to individuals and populations by the effluents released from their Royersford facility, and to provide this analysis to Region I to aid in our evaluation of the radiological impact of the accumulation of radioactive materials in the Royersford Wastewater Treatment Facility reed beds. They plan to include analysis of the pathways resulting from releases of radioactive effluent directly to the river, in anticipation of approval of their NPDES permit in the coming year. INS performed a similar analysis for their Morris, Illinois facility, "Radiological Impacts of Effluent Releases to the Atmosphere and to the Sanitary Sewer from Interstate Nuclear Services" (copy enclosed). INS provided a copy of this analysis at our request, for review and comment, so that the analysis of the releases from the Royersford facility will be more likely to be acceptable to the NRC. We have reviewed the enclosed document and prepared the enclosed draft letter describing our comments, most of which concern specific site parameters for the Royersford Wastewater Treatment Facility. So that the review is complete, we request assistance with the review of the models selected by INS, particularly those used in Cases 6.8, 6.9, and 6.12. If the pathways, models, or maximally exposed individuals selected in the analyses are not appropriate, please recommend guidance which we can provide to INS.

Ronald R. Bellamy, Chief  
Nuclear Material Safety Branch, DRSS, RI

Enclosures:

1. Letter dated May 29, 1992 with enclosed , "Radiological Impacts of Effluent Releases to the Atmosphere and to the Sanitary Sewer from Interstate Nuclear Services"
2. Draft Letter to INS from Region I

bcc:

Region I Docket Room (w/concurrences)

J. Kinneman, RI

E. Ullrich, RI

RI:DRSS  
Ullrich/lp

8/13/92

*RMK*  
RI:DRSS  
Costello

8/14/92

*RMK*  
RI:DRSS  
Kinneman

8/14/92

*RMK*  
RI:DRSS  
Bellamy

8/14/92