

March 14, 1977

MEMORANDUM FOR: Safeguards Research Review Group
I. Mail, RES
S. Yaniv, RES
R. Bernero, FC
V. Hodge, FC

FROM: Frank J. Arsenault, Acting Director
Division of Safeguards, Fuel Cycle
and Environmental Research

SUBJECT: CONSEQUENCE ESTIMATION STUDY

Enclosed for your technical review is the latest draft of the Consequence Estimation Project - Phase I report "Adversary Actions in the Nuclear Power Fuel Cycle: Reference Events and Their Consequences". Please submit your comments no later than 25 March 1977, as we plan to decide by 30 March 1977, on a final version for publication.

The second phase is to review available data and analytical models appropriate to each event type specified in Phase I to identify:

1. State-of-the-art methodology which may be used to determine the consequences of the reference events identified in Phase I;
2. Modifications and additions to the methodology which may be required to make it generally applicable to the analysis of those events.

The results of Phase II will be a list of calculations to be performed, the techniques and codes to be used, the code modifications required, the model assumptions and parameters and the format for the calculational results. This phase is nearing completion. The draft report is expected before the end of March.

The results of Phases I and II will be the principal basis for NRC to decide the scope and depth of the Phase III to be pursued. In order to minimize the between phases gap and possible team member reassignment I would like to determine which Phase III work might be authorized to maintain momentum while NRC completes its review of the work to date.

At 9:00 a.m. Friday, April 1, 1977 in Willste 1133, BNL and SAI representatives will inform the NRC staff of the Phase II status and the results to date. They will also answer any questions NRC staff may still have regarding Phase I. You and cognizant members of your office are requested to attend and to offer comment and advice concerning Phase III activities that might be carried on while the Phase II report is under review.

(S)

Frank J. Arsenault, Acting Director
Division of Safeguards, Fuel Cycle
and Environmental Research

Enclosure:
Draft Report - Consequence
Estimation Project

Review Group Members

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