UNITED STATES DEPARTMENT OF STATE REVIEW AUTHORITY: HOWARD H LANGE CLASSIFICATION: SECRET REASON: 25X6 **DECLASSIFY AFTER: 22 NOV 2017**

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MENZEL AND DIAHOND. THE REPORTS

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IRR IMPROVEMENT PROJECT

SUMMARY OF MEETING NOVEMBER 2-6, 1987 BETWEEN INER AND AIT CONSULTANTS AT BNL.

GENERAL. THE MEETING WAS TO DISCUSS PROGRESS ON THE ABOVE PROJECT AND WAYS IN WHICH AFT CAN CONTINUE TO ASSIST INER. IN SUMMARY, PROGRESS HAS BEEN HADE ON SEVERAL TASKS AND IN PROJECT PLANNING. THIS PROGRESS AND THE PROBLEMS BEING PURSUED IS SUMMARIZED IN EACH OF FIVE 🚅 HAJOR CATEGORIES BELOW.

FOR THE FUTURE, MORE ASSISTANCE FROM BML IS EXPECTED BY INER. THIS WILL INVOLVE DIRECT TECHNICAL HELP UNDER CONTRACT IN ONE OR HORE OF THE FOLLOWING SUBJECTS:

- ASSESSMENT OF FLOW DISTRIBUTION UNDER ACCIDENT **CONDITIONS**
- MODERATOR AND BOTTOM THERMAL SHIELD ENERGY DEPOSITION
- CORE DESIGN AND FUELING SCHEME PROCEDURES
- DEVELOPMENT OF A TRANSIENT FUEL TEST FACILITY
- APPLICATIONS OF RESEARCH REACTORS

DIRECT ASSISTANCE IN OTHER AREAS AND INDIRECT ASSISTANCE BY OBTAINING TECHNICAL INFORMATION FROM OTHER ALT CONSULTANTS IS ALSO EXPECTED. A NEXT MEETING IN THE TIME FRAME OF JANUARY OR FEBRUARY, 1988 WAS ALSO DISCUSSED.

PROJECT MANAGEMENT. THE PLAN DEVELOPED BY INER SINCE APRIL, 1987 WAS PRESENTED AND REVIEWED. THE PLAN CONSISTS OF 6 PRIMARY TASKS AND REPRESENTS A GOOD OUTLINE OF WORK TO BE COMPLETED. A SCHEDULE WAS GIVEN FOR 3 OF THESE AND FOR ONE TASK (CORE DESIGN AND SAFETY ANALYSIS) A MORE DETAILED WORK BREAKDOWN STRUCTURE WAS GIVEN AS WAS A SCHEDULE BASED ON HONTHLY INTERVALS. SUGGESTIONS WERE MADE FOR IMPROVING THE PLAN. THESE INCLUDED ADDING HORE DETAIL ON MILESTONE CHARTS TO BETTER DEFINE SUBTASKS AND TO EXPEDITE REVIEWING PROGRESS; ADDING CONNECTIONS WHICH SHOW THE DEPENDENCY OF ONE SUBTASK ON ANOTHER; IDENTIFYING RESOURCES THAT WILL BE COMMITTED TO EACH TASK, AND INDICATING ALTERNATIVE DIRECTIONS THAT HIGHT BE TAKEN AT A PARTICULAR DECISION POINT. IT WAS AGREED THAT THER WOULD CONTINUE TO IMPROVE THE PROJECT PLAN AND WOULD WORK OUT THE PLAN FOR TASK 2 WITH A MONTHLY SCHEDULE TAS THE FOR TASK 1).

CORE DESIGN AND SAFETY ANALYSIS. A REVIEW OF PAST PROGRESS WAS PRESENTED. SINCE APRIL, 1987 WORK HAS PROCEEDED IN SETTING UP WINS-D AS THE LATTICE PHYSICS CODE AND SOME DETAILED PLANNING HAS TAKEN PLACE. SOME OF THE PROBLEMS WHICH NEED TO BE RESOLVED WERE DISCUSSED UNCLUDING OBTAINING DIRECT OR SYNTHESIZED THREE-DIMENSIONAL CORE CALCULATIONS AND DEVELOPING OPTIMUM REFLECLING SCHEMEST AND IT IS ANTICIPATED THAT HORE TECHNICAL ASSISTANCE CAN BE SUPPLIED FROM BNL.

MODERATOR AND BOTTOM THERMAL SHIELD NUCLEAR HEAT ANALYSIS. THE PROGRESS THAT HAS BEEN HADE ON THIS SUBJECT HAS REVIEWED. INER IS CLOSE TO HAVING A CONTRACT WITH A CONSULTANT ICRC OF JAPAN) WHICH WILL HELP DEVELOP AN IMPROVED CALCULATIONAL CAPABILITY. IT WAS NOTED THAT INER MIGHT STILL HAVE PROBLEMS IN RUNNING CALCULATIONS THAT TOOK EXCESSIVE COMPUTER TIME AFTER THIS METHODOLOGY WAS IN PLACE. THIS QUESTION SHOULD BE RESOLVED BETWEEN INER AND ITS CONSULTANT. NO DETAILED WORK BREAKDOWN STRUCTURE WAS GIVEN FOR THIS SUBJECT AREA.

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THERMAL-HYDRAULIC SAFETY ANALYSIS. SEVERAL NEW CALCULATIONS FOR LOCA, LOF AND LOTA EVENTS WERE PRESENTED. THESE CALCULATIONS ARE PRELIMINARY BUT IMPICATE THAT SAFETY LIMITS MAY BE A PROBLEM WITH THE CURRENTLY PROPOSED DESIGN. PLANNING IN THE AREA OF CODE VALIDATION, EXPERIMENTAL INVESTIGATION OF FLOW DISTRIBUTIONS, ADDITIONAL ACCIDENT ANALYSIS AND POTENTIAL REDESIGN EFFORTS WAS DISCUSSED. IT WAS NOTED THAT ASSISTANCE IN USING RELAPS, ORIGINALLY EXPECTED FROM INEL THIS FALL, HAS BEEN INDEFINITELY POSTPONED. THE ASSISTANCE WOULD HAVE BEEN PART OF A VISIT TO INER

PRIMARILY FOR LWR APPLICATIONS.

FUEL TESTING. A REVIEW OF PAST EFFORTS WAS PRESENTED AS WAS THE RATIONALE FOR MEEDING A NEW TRANSIENT TEST FACILITY. WORK IS CURRENTLY UNDERWAY ON MANY ASPECTS OF FUEL DEVELOPMENT. THE PLAN FOR FUTURE WORK WAS REVIEWED AND IT WAS AGREED THAT HORE DETAIL WAS NEEDED FOR 1988 ACTIVITIES. IT WAS AGREED THAT THE VISIT OF AN AIT EXPERT IN JANUARY OR FEBRUARY TO DISCUSS DAYGO FOR THE FUEL FARRICATION FACILITY SHOULD BE SCHEDULED.

END TEXT OF MEETING SUMMARY.

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4. (U) REGIN TEXT OF MINUTES OF MEETING.

MINUTES OF MEETING OF THER WITH ALT REPRESENTATIVES

DURING A SEPARATE MEETING BETWEEN AIT REPRESENTATIVES AND IMER, ALT REPS EXPRESSED SATISFACTION WITH THE COMMITMENT TO THE PROJECT EXPRESSED BY INER DEPUTY DIRECTOR CHANG AND REITERATED THE IMPORTANCE AIT GIVES TO SEEING THIS PROJECT COMPLETED. AIT REPS SUGGESTED THAT THE WORK PLAN PRESENTED REPRESENTED A GOOD OUTLINE AND INDICATED THE BENEFITS OF GREATER SPECIFICITY AND IDENTIFICATION OF RESOURCES THAT WOULD MAKE THE PLAN & MORE USEFUL TOOL TH IMPLEMENTING INER'S COMMITMENT TO PROJECT COMPLETION. THE SPECIFICITY INDICATED FOR FY SE IN THE SEPARATE PAPER ON TASK 1 (CORE DESIGN AND SAFETY ANALYSIS) IS A GOOD MODEL IN THIS REGARD. DR. CHANG ACCEPTED AIT'S POINTS ON THE NEED FOR GREATER DEFINITION AND EXPRESSED HIS APPRECIATION OF THE POTENTIAL FOR AN IMPROVED PLAN TO BENEFIT HIM AS A "PROJECT MANAGER" IMPLEMENTING INER SENIOR MANAGEMENT'S EXISTING CONNITHENTS TO THIS PROJECT. ALT EMPHASIZED, AND INER AGREED, THAT THIRD PARTY EXPERT ASSISTANCE SHOULD BE ARRANGED THROUGH BHL TO ENSURE PROPER COORDINATION:

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