



**United States Department of Energy
National Nuclear Security Administration
Nuclear Criticality Safety Program**

**Integral Experiment Request 305
CED-3a Summary Report**

Critical and Subcritical Experiment Design Team (CeDT)

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William J. Marshall (ORNL), CeDT Methods Member
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September 27, 2022

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During CED-3a, the following information is required, as specified in the April 1, 2016 revision 1 of the CEdT process manual:

- A detailed cost estimate,
- A resource loaded (baseline) schedule for execution of the experiment, data analysis, and publication,

Under IER-305, critical experiments will be done with and without molybdenum sleeves on 7uPCX fuel rods. New critical assembly hardware has been designed and procured to accomplish the experiments with the fuel supported by in a 1.55 cm triangular-pitched array

Appendix I is a Gantt chart for the CED-3b, CED-4a, and CED-4b phases of the project. It is a summary view of the full project that includes both the resource-loaded schedule as well as the detailed cost estimate for the phases addressed. The overall costs of the three phases are summarized in the table below.

CED Phase	Total Cost
3b	\$206,206
4a	\$71,328
4b	\$99,389

Appendix I

Summary Gantt Chart for Phases CED-3b through CED-4b for Integral Experiment Request 305

