



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

**Integral Experiment Request 209
CED-3a Summary Report**

Critical and Subcritical Experiment Design Team (C_{Ed}T)

Gary A. Harms (SNL), C_{Ed}T Lead, Experiment, and Publication Member

Michael L. Zerkle (NNL), C_{Ed}T NDAG Member

Thomas M. Miller (ORNL), C_{Ed}T Methods Member

David P. Heinrichs (LLNL), C_{Ed}T Member

June 30, 2017

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During CED-3a, the following information is required, as specified in the April 1, 2016 revision 1 of the C_{Ed}T process manual:

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

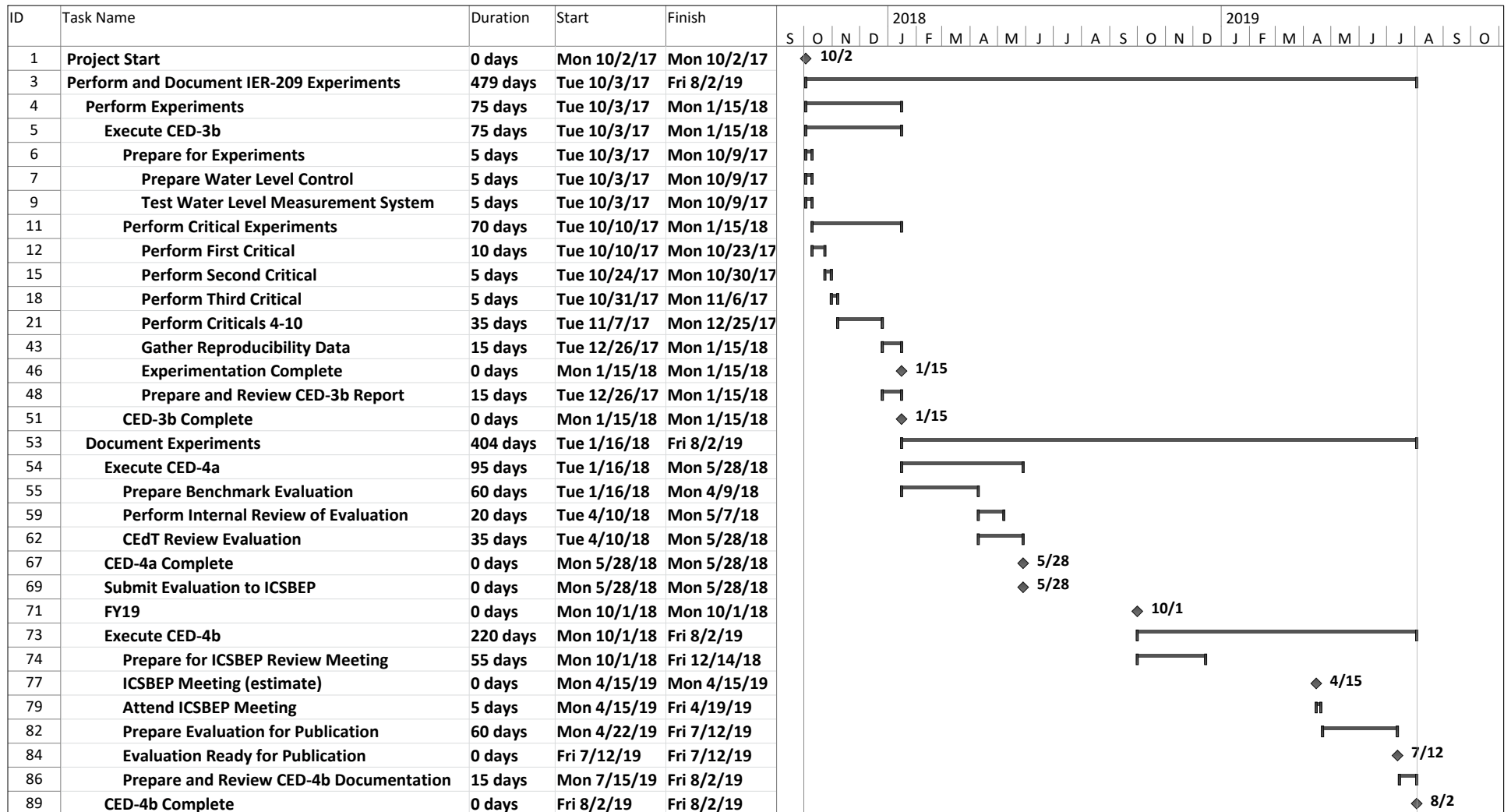
Under IER-209, critical experiments like those done under IER-208 will be performed. The difference between the two sets of experiments is that, while the IER-208 experiments were done in the 0.800 cm pitch 7uPCX hardware, the IER-209 experiments will be done in the 0.855 cm pitch 7uPCX hardware.



















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	\$195,768
4a	\$125,016
4b	\$117,399

Appendix I

Summary Gantt Chart for Phases CED-3b through CED-4b for Integral Experiment Request 209



Project: IER-208 plan Date: Mon 6/19/17	Task		External Tasks		Manual Task		Finish-only	
	Split		External Milestone		Duration-only		Deadline	
	Milestone		Inactive Task		Manual Summary Rollup		Progress	
	Summary		Inactive Milestone		Manual Summary		Manual Progress	
	Project Summary		Inactive Summary		Start-only	