## *Jlab Accelerator Division*

## *AHLA Application Conversion to*

## *CEBAF Element Database (CED)*

Scientific/Technical Project Charter

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| **Project Name (and Number)** | AHLA-CED Application Conversion |
| **Project Abstract** | Conversion of existing AHLA-owned applications to use the new CEBAF Element Database (CED) as the authoritative source of beamline component information. Applications using the CED will be updated with the latest configuration information.   * Reduction of Accelerator downtime due to application mis-configuration. * Reduction of time spent on application maintenance |
| **Project Sponsor** | Accelerator Division |
| **Funding Sources** |  |
| **Project Management Team** | Michele Joyce |
| **Lead Organization** | AHLA |
| **Supporting Organizations** | Operations Group |
| **Scientific/Technical**  **Background** | Many of the operational tools provided and maintained by the AHLA group need up-to-date beamline configuration information. The CED is being developed to provide a central repository for beamline configuration information. The AHLA group provides and maintains many operational tools that would benefit from the use of such a repository. |
| **Project Scope** | Within the project scope:   * Compile list of existing AHLA applications that would benefit from the use of the CED. * Conversion of existing AHLA applications to use the CED for configuration. * Commitment to use the CED when developing new applications   Outside the project scope:   * Conversion of applications not under AHLA responsibility. |
| **Objectives** | All AHLA applications will to be using the CED for configuration information by start of 12GeV. |
| **Deliverables** | * List of applications eligible for conversion.   + List to include identification of CED systems used.   + List will be updated periodically with status information and progress. * Each application identified will be converted to use the CED as the CED is populated with the needed system(s) |
| **Constraints** | Application conversion progress will depend on   1. CED development and population 2. Manpower |
| **Assumptions** | * System relevant to the application is maintained in the CED * CED information is maintained and kept up-to-date by system experts. * Applications are relatively stable and can be up-graded without re-design. |
| **Special JLab Commitments** |  |
| **Budget** | Magnets  0.35 FTE Computer Scientist  IOCS  0.1 FTE Computer Scientist  RF  0.3 FTE Computer Scientist  Diagnostics  0.3 FTE Computer Scientist  Vacuum  0.05 FTE Computer Scientist |
| **Schedule** | \*\*At current staffing levels:   * November 2011 (end of 6 month down)   + Magnet and IOC applications * May 2012 (start of 12GeV shutdown)   + RF Applications * May 2013 (start of 12GeV)   + Diagnostics and Vacuum applications |
| **Controls/Reporting** |  |