

**QPS Fabrication Project
Work Breakdown Structure (WBS) Dictionary
Project Management and Integration (WBS 8)**

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QPS WBS Dictionary

Project Management and Integration (WBS8)

WBS Element: 8		WBS Level: 2
WBS Title:	Project Management and Integration	
Description:	This summary-level WBS element covers project management and integration activities that are not specific to a particular hardware work scope. It consists of all the activities necessary to manage the QPS Project and carry out system-level engineering tasks such as project management, project control, systems engineering, design integration, technical assurance, environment, safety, and health (ES&H), Quality Assurance and Control (QA/QC) management, and project physics.	

WBS Element: 81		WBS Level: 3
WBS Title:	Project Management and Control	
Description:	This WBS element includes the overall project direction, oversight, administrative support, and project control support including budgeting, cost control, scheduling, and tracking activities. These are in direct support of the QPS fabrication project.	

WBS Element: 82		WBS Level: 3
WBS Title:	Project Engineering	
Description:	This WBS element includes the engineering management, systems engineering, design integration, systems analysis, and technical assurance activities required for the design and construction of the QPS Project. Specific tasks include day-to-day engineering management, engineering requirements and interface definition, overall project design integration and global models, configuration management and control, and systems level studies.	

WBS Element: 83		WBS Level: 3
WBS Title:	Environmental and Safety/QA	
Description:	<p>This WBS element includes all the ES&H and Quality Assurance/Quality Control support of the design and construction process. Since these activities cut across all WBS elements, the effort is defined and collected here. It includes the following activities:</p> <ul style="list-style-type: none"> • Construction Safety; • Electrical Safety; • Radiation Safety; • NEPA & Safety Assessment Review & Coordination; • Industrial Hygiene & Safety; • Quality Assurance; and • Quality Control of the procurement and construction processes. <p>PPPL will be responsible for major QPS procurements. PPPL intends to use Defense Contracts Management Agency (DCMA) personnel, to supplement project personnel, as field QA inspectors at supplier sites.</p>	

WBS Element: 84		WBS Level: 3
WBS Title:	Project Physics	
Description:	There are no direct project costs under this WBS sub-element. Physics analysis in support of design and fabrication activities is covered under WBS 1. Physicists involved in the design and fabrication of hardware, such as Heating, Fueling, and Vacuum (WBS 2), or Diagnostics (WBS 3) are covered in those work packages, respectively. Physicists involved in project management are covered in WBS 81.	