

Implementation Plan for ILC-CR-0003: Detector hall with vertical shaft access

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ILC CMB meeting 19.12.2014



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- **Change Request: changes or additions to the existing design baseline**
- **ILC design baseline:**
 - **(Released) documents listed in the design register**
 - **+ "what is written in the TDR" (surrogate for formal specs)**
- **For experimental hall: mostly TDR text**



- **CR-0003 has far-reaching consequences:**
 - **Experimental hall design changes**
 - **Detector assembly procedure changes**
 - **Surface assembly building requirements change**
 - **Schedule and cost change**
 - **The whole accelerator placement in Kitakami changes**
 - **All access hall positions, access tunnels, surface access yards change for the Kitakami site**
 - **How much of that is part of the formal baseline?**
 - **The precise accelerator layout at the Kitakami site is not (yet) part of the formal design baseline**
 - **Avoid burdening this CR with a review of the full site-specific design!**
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- **Main issue:**
Experimental hall gets a vertical shaft, i.e., assembly on surface is possible, experimental and assembly hall layouts change
 - **-> specify conceptual IR and assembly hall layout**
 - **Release a new conceptual schedule for an (generic) Asian site**
 - **Specify cost changes (if any) compared to TDR baseline cost**
 - **-> provide the detector community with a solid, realistic baseline for their planning and design (make the folklore official)**
 - **Leave a detailed review of the Kitakami site for another day, and another change request**
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- **Limit implementation of this CR to detector and assembly hall (incl. shafts)**
 - **Provide consistent design on conceptual level:**
 - **Specification document with basic numbers (cavern and shaft dimensions, crane height, ...)**
 - **2d drawing set and 3d model**
 - **Schedule: provide schedule for a generic site, consider only changes caused by the different detector hall construction and detector assembly**
-> secondary effects (longer access tunnels for cryogenic access halls) are out of scope for this CR
 - **Cost: provide cost difference compared to TDR (generic Asian) detector hall design**
 - **Form a Change Implementation Team to do that**
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