

LIGO Operations Change Request

Change Request No.: LIGO-R1300028-v1

Date: 28 October 2013

Change Request Title:

WBS Element Title (number):

Originator: R. McCarthy **Telephone:** 5093711044 **CCB Sponsor:**

Technical Change Description: Provide a secondary feed from the Department of Energy (DOE) 400 Area substation to the existing Benton Public Utility District (BPUD) cabling that feed the LIGO Hanford Observatory (LHO). This will mitigate any outages caused by maintenance in the switch yard. Currently we endure an annual outage for work on our circuit breaker and multiday outage every 3-5 years for substation maintenance. The DOE and or Subcontractors will provide updates to system drawings, install new cabling a new 3 way switch, and a new Meter for BPA billing to Benton PUD. Benton PUD is asking for a 3 - 4 day window when LIGO can be down.

The recovery from these outages takes days, so the cost is outweighed by the impact on operations and science

Budget Impact:

BPUD - \$60K
 BPA - \$4K
 MSA - \$31K (\$26K x 1.2 overhead)
 Total - \$95K + \$5k for contingency.

Schedule Impact:

Benton PUD is asking for a 3 - 4 day window when LIGO can be down.
 This will require a multiday outage that will be scheduled to minimize the impact on aligo commissioning.
 Probably just before entry in to re-hang ITMs

Concurrence:

MIT: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain	Controls and Data Acquisition Engineering: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain
Hanford Observatory: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain	Instrument Science: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain
Livingston Observatory: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain	Data Analysis Science: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain
Systems, Mechanics and Optics Engineering: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain	Laboratory Computing: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abstain

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Approval/Disposition (CCB Chairman):

Date:

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Additional Information