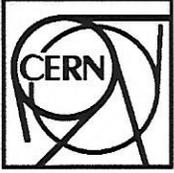


 <b>ATLAS project</b>	 <b>CERN</b>	<b>ATLAS AGREEMENT 502/2012</b>
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<b>\$141k from T577030</b>	<b>To T541500</b>	<b>20 September 2012</b>
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## **ATLAS AGREEMENT No. 502 / 12**

### **Construction of 38 RODs for the SCT Detector**

#### **BETWEEN**

**The ATLAS Collaboration**

Represented by the ATLAS Resources Coordinator on the one hand,

#### **AND**

Lawrence Berkeley National Lab (LBNL),

Represented by the US ATLAS project manager,

On the other hand

#### **IT IS AGREED AS FOLLOWS:**

#### **CONSIDERING THAT:**

- The United States has signed the ATLAS construction MoU (RRB-D 98-44 rev.) and M&O MoU (CERN-RRB-2002-035);
- The US contributes to the Inner Detector sub-systems;
- LBNL contributes to the SCT sub-detector;
- The M&O-B for the Inner Detector includes efforts to upkeep the detector in a good working order. This requires, among other, to maintain and update the SCT RODs;

**IT IS AGREED AS FOLLOWS:**

**ARTICLE 1    SCOPE OF THE AGREEMENT**

- 1.1            The purpose of the Agreement is to record the financial effort made by – and within – the SCT to achieve the above goals.

**ARTICLE 2    OBLIGATIONS OF THE PARTIES**

- 2.1            LBNL will purchase and store the parts required to make 38 RODs for the installation into the existing SCT-DAQ system extending the throughput of the system to reach the highest possible luminosities now under consideration. The cost of the production will be split between the funds required to procure the parts and the funds required to hire technical manpower for the construction, testing and commissioning of the boards. The cost of parts is \$111k based on an estimated received from LNBL in 2012. The cost of the manpower is \$30k also based on an estimated from 2012. An M&O credit of \$141k will be given to US ATLAS. The tasks described in detail in Annex 1 will be performed in accordance with the schedule and milestones approved by SCT PL and with ATLAS and CERN safety rules, which are inalienable parts of this Agreement. The health and accident

insurances related to the execution of the work package will be the responsibility of the individuals.

**ARTICLE 3**      **FUNDING**

3.1                      For producing the work package as described in Article 2, a total amount of \$141 k will be paid from the SCT M&O team account T577030 to US team account T541500 at CERN, using the exchange rate defined by EDH at the time of the transfer request.

**ARTICLE 4**      **DURATION OF THE AGREEMENT**

4.1                      This Agreement is valid until June, 2013. It can be extended by mutual consent using appropriate Addenda.

**ARTICLE 5**      **CO-ORDINATION AND ADDRESSES FOR CORRESPONDENCE**

5.1                      All documents concerning this agreement shall bear the reference:

“ATLAS Agreement No. 502/12”

5.2                      The performance of this agreement shall be co-ordinated by the following persons:

for the ATLAS Collaboration:

ATLAS SCT Project Leader, CERN – Department PH, CH-1211  
Geneva 23, SWITZERLAND (attn. S. McMahon)

## ANNEX 1

### **STATEMENT OF WORK**

The SCT Read Out Driver (ROD) boards were fabricated in industry under supervision of LBNL and production testing and firmware programming were done in-house at LBNL. Starting in 2012 LBNL will undertake to construct, test and commission and additional 38 RODs for delivery to CERN in 2013.

for US ATLAS

US ATLAS Project Manager, MS 510A, Brookhaven National Laboratory, Upton, NY 11973-5000 (Attn: Srinu Rajagopalan).

for LBNL

LBNL-ATLAS ROD production manager, Lawrence Berkeley National Laboratory, Berkeley, CA (Attn: Maurice Garcia-Sciveres)

**ARTICLE 6    ARBITRATION**

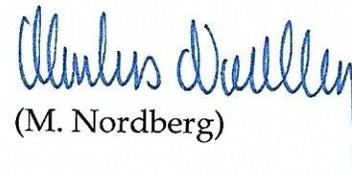
6.1

Any differences arising during the execution of this agreement will be submitted to the ATLAS Spokesperson which will propose solutions in the best interest of the Collaboration.

Signed in Geneva, 26 September 2012

  
(S. McMahon)

SCT Project Leader  
ATLAS Collaboration

  
(M. Nordberg)

Resources Coordinator  
ATLAS Collaboration

  
(S. Rajagopalan)

Project Manager  
US ATLAS

  
(M. Garcia-Sciveres)

ROD production manager  
LBNL, US