

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost
249	1.5	Online Systems	\$397,000.00	\$143,488.00	\$540,488.00
		<u>Notes</u> WBS Definition- This summary WBS element includes upgrades associated with data-taking and detector monitoring and controls systems. We have set a goal for data-logging of 50 Hz in the higher luminosity environment of Run 2b. This element describes the resources needed to develop an online system that will meet the physics needs of the experiment.			
250	1.5.1	Online/DAQ Network	\$0.00	\$0.00	\$0.00
		<u>Notes</u> WBS Definition- Network upgrades			
251	1.5.1.1	Switch component evaluation	\$0.00	\$0.00	\$0.00
		<u>ID</u> <u>Resource Name</u> <u>Units</u> <u>Cost</u> <u>Baseline Cost</u> <u>Act. Cost</u> <u>Rem. Cost</u> <u>Work</u> <u>Ovt. Work</u> <u>Baseline Work</u> <u>Act. Work</u> <u>Rem. Work</u> 37   OpPHYSF   0.1   \$0.00   \$0.00   \$0.00   \$0.00   32 h   0 h   0 h   0 h   32 h			
		<u>Notes</u> WBS Definition- Determine items to be purchased  Labor BOE- Run2a experience			
252	1.5.1.2	Switch component PO	\$0.00	\$0.00	\$0.00
		<u>Notes</u> WBS Definition- Requisition and PO creation			
253	1.5.1.3	Switch component delivery	\$0.00	\$0.00	\$0.00
		<u>Notes</u> WBS Definition- Delivery time			
254	1.5.1.4	Switch component commissioning	\$0.00	\$0.00	\$0.00
		<u>ID</u> <u>Resource Name</u> <u>Units</u> <u>Cost</u> <u>Baseline Cost</u> <u>Act. Cost</u> <u>Rem. Cost</u> <u>Work</u> <u>Ovt. Work</u> <u>Baseline Work</u> <u>Act. Work</u> <u>Rem. Work</u> 37   OpPHYSF   0.1   \$0.00   \$0.00   \$0.00   \$0.00   4 h   0 h   0 h   0 h   4 h			
		<u>Notes</u> WBS Definition- Install, cable, commission  Labor BOE- Run2a experience			
255	1.5.2	Linux workstation systems	\$150,000.00	\$3,648.00	\$153,648.00
		<u>Notes</u> WBS Definition- L3, Control Room, Monitor nodes			
256	1.5.2.1	Linux system evaluations	\$0.00	\$0.00	\$0.00
		<u>Notes</u> WBS Definition- Periodic market and system analysis following Computing Division purchase schedules			
257	1.5.2.1.1	Linux system evaluations 1	\$0.00	\$0.00	\$0.00
		<u>ID</u> <u>Resource Name</u> <u>Units</u> <u>Cost</u> <u>Baseline Cost</u> <u>Act. Cost</u> <u>Rem. Cost</u> <u>Work</u> <u>Ovt. Work</u> <u>Baseline Work</u> <u>Act. Work</u> <u>Rem. Work</u> 13   PHYSF   0.2   \$0.00   \$0.00   \$0.00   \$0.00   96 h   0 h   0 h   0 h   96 h			

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost						
"Linux system evaluations 1" continued											
<u>Notes</u>											
WBS Definition- Periodic market and system analysis following Computing Division purchase schedules											
Labor BOE- Run2a experience											
258	1.5.2.1.2	Linux system evaluations 2	\$0.00	\$0.00	\$0.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	96 h	0 h	0 h	0 h	96 h
<u>Notes</u>											
WBS Definition- Periodic market and system analysis following Computing Division purchase schedules											
Labor BOE- Run2a experience											
259	1.5.2.1.3	Linux system evaluations 3	\$0.00	\$0.00	\$0.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	96 h	0 h	0 h	0 h	96 h
<u>Notes</u>											
WBS Definition- Periodic market and system analysis following Computing Division purchase schedules											
Labor BOE- Run2a experience											
260	1.5.2.1.4	Linux system evaluations 4	\$0.00	\$0.00	\$0.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	96 h	0 h	0 h	0 h	96 h
<u>Notes</u>											
WBS Definition- Periodic market and system analysis following Computing Division purchase schedules											
Labor BOE- Run2a experience											
261	1.5.2.1.5	Linux system evaluations 5	\$0.00	\$0.00	\$0.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	96 h	0 h	0 h	0 h	96 h
<u>Notes</u>											
WBS Definition- Periodic market and system analysis following Computing Division purchase schedules											
Labor BOE- Run2a experience											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost
262	<b>1.5.2.2</b>	<b>L3 filter node PO</b>	<b>\$150,000.00</b>	<b>\$0.00</b>	<b>\$150,000.00</b>
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Requisition and PO creation				
263	1.5.2.2.1	L3 filter node PO 1	\$49,500.00	\$0.00	\$49,500.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Requisition and PO creation				
264	1.5.2.2.2	L3 filter node PO 2	\$49,500.00	\$0.00	\$49,500.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Requisition and PO creation				
265	1.5.2.2.3	L3 filter node PO 3	\$51,000.00	\$0.00	\$51,000.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Requisition and PO creation				
<b>266</b>	<b>1.5.2.3</b>	<b>L3 Filter node delivery</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Delivery time				
267	1.5.2.3.1	L3 Filter node delivery 1	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Delivery time				
268	1.5.2.3.2	L3 Filter node delivery 2	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Delivery time				
269	1.5.2.3.3	L3 Filter node delivery 3	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Delivery time				
<b>270</b>	<b>1.5.2.4</b>	<b>L3 Filter node commissioning</b>	<b>\$0.00</b>	<b>\$3,648.00</b>	<b>\$3,648.00</b>
	<i>Notes</i> WBS Definition- Periodic purchase of L3 filter nodes Installation, setup, and commissioning				

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name			M&S Cost	Labor Cost	Total Cost					
271	1.5.2.4.1	L3 Filter node commissioning 1			\$0.00	\$1,216.00	\$1,216.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of L3 filter nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
272	1.5.2.4.2	L3 Filter node commissioning 2			\$0.00	\$1,216.00	\$1,216.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of L3 filter nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
273	1.5.2.4.3	L3 Filter node commissioning 3			\$0.00	\$1,216.00	\$1,216.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of L3 filter nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
274	1.5.2.5	Control Room node PO			\$0.00	\$0.00	\$0.00					
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation											
275	1.5.2.5.1	Control Room node PO 1			\$0.00	\$0.00	\$0.00					
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation											
276	1.5.2.5.2	Control Room node PO 2			\$0.00	\$0.00	\$0.00					
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost
277	1.5.2.5.3	Control Room node PO 3	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation				
278	1.5.2.5.4	Control Room node PO 4	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation				
279	1.5.2.5.5	Control Room node PO 5	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Requisition and PO creation				
280	1.5.2.6	Control Room node delivery	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Delivery time				
281	1.5.2.6.1	Control Room node delivery 1	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Delivery time				
282	1.5.2.6.2	Control Room node delivery 2	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Delivery time				
283	1.5.2.6.3	Control Room node delivery 3	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Delivery time				
284	1.5.2.6.4	Control Room node delivery 4	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Delivery time				
285	1.5.2.6.5	Control Room node delivery 5	\$0.00	\$0.00	\$0.00
	<u>Notes</u> WBS Definition-				

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost							
"Control Room node delivery 5" continued												
<u>Notes</u> Periodic purchase of Control Room nodes Delivery time												
286	1.5.2.7	Control Room node commissioning	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Installation, setup, and commissioning												
287	1.5.2.7.1	Control Room node commissioning 1	\$0.00	\$0.00	\$0.00							
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Installation, setup, and commissioning  Labor BOE- Run2a experience												
288	1.5.2.7.2	Control Room node commissioning 2	\$0.00	\$0.00	\$0.00							
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Installation, setup, and commissioning  Labor BOE- Run2a experience												
289	1.5.2.7.3	Control Room node commissioning 3	\$0.00	\$0.00	\$0.00							
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Installation, setup, and commissioning  Labor BOE- Run2a experience												
290	1.5.2.7.4	Control Room node commissioning 4	\$0.00	\$0.00	\$0.00							
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes												

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost							
"Control Room node commissioning 4" continued												
<u>Notes</u> Installation, setup, and commissioning												
Labor BOE- Run2a experience												
291	1.5.2.7.5	Control Room node commissioning 5	\$0.00	\$0.00	\$0.00							
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u> WBS Definition- Periodic purchase of Control Room nodes Installation, setup, and commissioning												
Labor BOE- Run2a experience												
292	1.5.2.8	Monitoring node PO	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												
293	1.5.2.8.1	Monitoring node PO 1	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												
294	1.5.2.8.2	Monitoring node PO 2	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												
295	1.5.2.8.3	Monitoring node PO 3	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												
296	1.5.2.8.4	Monitoring node PO 4	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												
297	1.5.2.8.5	Monitoring node PO 5	\$0.00	\$0.00	\$0.00							
<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Requisition and PO creation												

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost																																				
298	1.5.2.9	Monitoring node delivery	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
299	1.5.2.9.1	Monitoring node delivery 1	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
300	1.5.2.9.2	Monitoring node delivery 2	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
301	1.5.2.9.3	Monitoring node delivery 3	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
302	1.5.2.9.4	Monitoring node delivery 4	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
303	1.5.2.9.5	Monitoring node delivery 5	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Delivery time																																								
304	1.5.2.10	Monitoring node commissioning	\$0.00	\$0.00	\$0.00																																				
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning																																								
305	1.5.2.10.1	Monitoring node commissioning 1	\$0.00	\$0.00	\$0.00																																				
	<table border="1"> <thead> <tr> <th>ID</th> <th>Resource Name</th> <th>Units</th> <th>Cost</th> <th>Baseline Cost</th> <th>Act. Cost</th> <th>Rem. Cost</th> <th>Work</th> <th>Ovt. Work</th> <th>Baseline Work</th> <th>Act. Work</th> <th>Rem. Work</th> </tr> </thead> <tbody> <tr> <td>37</td> <td>OpPHYSF</td> <td>0.1</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>16 h</td> <td>0 h</td> <td>0 h</td> <td>0 h</td> <td>16 h</td> </tr> <tr> <td>38</td> <td>OpCOMPF</td> <td>0.2</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>32 h</td> <td>0 h</td> <td>0 h</td> <td>0 h</td> <td>32 h</td> </tr> </tbody> </table>					ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work																														
37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h																														
38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h																														
	<u>Notes</u> WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning  Labor BOE- Run2a experience																																								

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name			M&S Cost	Labor Cost			Total Cost			
306	1.5.2.10.2	Monitoring node commissioning 2			\$0.00	\$0.00			\$0.00			
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
307	1.5.2.10.3	Monitoring node commissioning 3			\$0.00	\$0.00			\$0.00			
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
308	1.5.2.10.4	Monitoring node commissioning 4			\$0.00	\$0.00			\$0.00			
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
309	1.5.2.10.5	Monitoring node commissioning 5			\$0.00	\$0.00			\$0.00			
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	38	OpCOMPF	0.2	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Periodic purchase of Monitor nodes Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
310	1.5.3	Fibre Channel SAN R&D			\$0.00	\$0.00			\$0.00			
	<i>Notes</i>											
	WBS Definition- Construct Linux-hosted Fibre Channel SAN											
311	1.5.3.1	FC SAN R&D evaluation			\$0.00	\$0.00			\$0.00			
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost																								
<b>"FC SAN R&amp;D evaluation" continued</b>																													
		<u>Notes</u> WBS Definition- Evaluate SAN components  Labor BOE- Run2a experience																											
<b>312</b>	<b>1.5.3.2</b>	<b>FC SAN R&amp;D PO</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>																								
		<u>Notes</u> WBS Definition- Requisition and PO creation																											
313	1.5.3.3	FC SAN R&D delivery	\$0.00	\$0.00	\$0.00																								
		<u>Notes</u> WBS Definition- Delivery time																											
314	1.5.3.4	FC SAN R&D commissioning	\$0.00	\$0.00	\$0.00																								
		<u>Notes</u> WBS Definition- Installation, setup, and commissioning  Labor BOE- Run2a experience																											
		<table border="1"> <thead> <tr> <th>ID</th> <th>Resource Name</th> <th>Units</th> <th>Cost</th> <th>Baseline Cost</th> <th>Act. Cost</th> <th>Rem. Cost</th> <th>Work</th> <th>Ovt. Work</th> <th>Baseline Work</th> <th>Act. Work</th> <th>Rem. Work</th> </tr> </thead> <tbody> <tr> <td>37</td> <td>OpPHYSF</td> <td>0.1</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>16 h</td> <td>0 h</td> <td>0 h</td> <td>0 h</td> <td>16 h</td> </tr> </tbody> </table>	ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h			
ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work																		
37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h																		
		<u>Notes</u> WBS Definition- Performance and reliability testing  Labor BOE- Run2a experience																											
315	1.5.3.5	FC SAN R&D analysis	\$0.00	\$0.00	\$0.00																								
		<u>Notes</u> WBS Definition- Performance and reliability testing  Labor BOE- Run2a experience																											
		<table border="1"> <thead> <tr> <th>ID</th> <th>Resource Name</th> <th>Units</th> <th>Cost</th> <th>Baseline Cost</th> <th>Act. Cost</th> <th>Rem. Cost</th> <th>Work</th> <th>Ovt. Work</th> <th>Baseline Work</th> <th>Act. Work</th> <th>Rem. Work</th> </tr> </thead> <tbody> <tr> <td>37</td> <td>OpPHYSF</td> <td>0.1</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>160 h</td> <td>0 h</td> <td>0 h</td> <td>0 h</td> <td>160 h</td> </tr> </tbody> </table>	ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	160 h	0 h	0 h	0 h	160 h			
ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work																		
37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	160 h	0 h	0 h	0 h	160 h																		
		<u>Notes</u> WBS Definition- Evaluate Linux server system with FC SAN as DAQ Host system																											
<b>316</b>	<b>1.5.4</b>	<b>DAQ HOST R&amp;D</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>																								
		<u>Notes</u> WBS Definition- Evaluate Linux server system with FC SAN as DAQ Host system																											
317	1.5.4.1	DAQ Host R&D evaluation	\$0.00	\$0.00	\$0.00																								
		<u>Notes</u> WBS Definition- Market and system analysis  Labor BOE- Run2a experience																											
		<table border="1"> <thead> <tr> <th>ID</th> <th>Resource Name</th> <th>Units</th> <th>Cost</th> <th>Baseline Cost</th> <th>Act. Cost</th> <th>Rem. Cost</th> <th>Work</th> <th>Ovt. Work</th> <th>Baseline Work</th> <th>Act. Work</th> <th>Rem. Work</th> </tr> </thead> <tbody> <tr> <td>37</td> <td>OpPHYSF</td> <td>0.1</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>32 h</td> <td>0 h</td> <td>0 h</td> <td>0 h</td> <td>32 h</td> </tr> </tbody> </table>	ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h			
ID	Resource Name	Units	Cost	Baseline Cost	Act. Cost	Rem. Cost	Work	Ovt. Work	Baseline Work	Act. Work	Rem. Work																		
37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h																		

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost							
318	1.5.4.2	DAQ Host R&D node PO	\$0.00	\$0.00	\$0.00							
	<i>Notes</i> WBS Definition- Requisition and PO creation											
319	1.5.4.3	DAQ Host R&D node delivery	\$0.00	\$0.00	\$0.00							
	<i>Notes</i> WBS Definition- Delivery time											
320	1.5.4.4	DAQ Host R&D node commissioning	\$0.00	\$0.00	\$0.00							
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	<i>Notes</i> WBS Definition- Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
321	1.5.4.5	DAQ Host R&D node analysis	\$0.00	\$0.00	\$0.00							
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	37	OpPHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	160 h	0 h	0 h	0 h	160 h
	<i>Notes</i> WBS Definition- Configuration, performance, and reliability testing											
	Labor BOE- Run2a experience											
322	1.5.5	Storage Systems	\$103,000.00	\$1,824.00	\$104,824.00							
	<i>Notes</i> WBS Definition- Disk storage systems											
323	1.5.5.1	Fibre Channel SAN	\$60,000.00	\$608.00	\$60,608.00							
	<i>Notes</i> WBS Definition- Storage Area Network infrastructure											
324	1.5.5.1.1	evaluation	\$0.00	\$0.00	\$0.00							
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i> WBS Definition- Evaluate SAN components											
	Labor BOE- Run2a experience											
325	1.5.5.1.2	PO	\$60,000.00	\$0.00	\$60,000.00							
	<i>Notes</i> WBS Definition- Requisition and PO Creation FC hubs and disk arrays											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost
326	1.5.5.1.3	delivery	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Delivery time				
327	1.5.5.1.4	commissioning	\$0.00	\$608.00	\$608.00
	<i>Notes</i> WBS Definition- Installation, setup, and commissioning				
	Labor BOE- Run2a experience				
328	1.5.5.1.5	operation	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Normal system operation tasks				
	Labor BOE- Run2a experience				
329	1.5.5.2	RAID system	\$43,000.00	\$608.00	\$43,608.00
	<i>Notes</i> WBS Definition- RAID disk array				
330	1.5.5.2.1	evaluation	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Evaluate RAID components				
	Labor BOE- Run2a experience				
331	1.5.5.2.2	PO	\$43,000.00	\$0.00	\$43,000.00
	<i>Notes</i> WBS Definition- Requisition and PO Creation RAID disk arrays				
332	1.5.5.2.3	delivery	\$0.00	\$0.00	\$0.00
	<i>Notes</i> WBS Definition- Delivery time				
333	1.5.5.2.4	commissioning	\$0.00	\$608.00	\$608.00
	<i>Notes</i> WBS Definition- Delivery time				
	Labor BOE- Run2a experience				

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost						
<b>"commissioning" continued</b>											
<i>Notes</i>											
WBS Definition- Installation, setup, and commissioning											
Labor BOE- Run2a experience											
<b>334</b>	<b>1.5.5.2.5</b>	<b>operation</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>						
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
38	OpCOMPF	0.05	\$0.00	\$0.00	\$0.00	\$0.00	300 h	0 h	0 h	0 h	300 h
<i>Notes</i>											
WBS Definition- Normal system operation tasks											
Labor BOE- Run2a experience											
<b>335</b>	<b>1.5.5.3</b>	<b>Backup system</b>	<b>\$0.00</b>	<b>\$608.00</b>	<b>\$608.00</b>						
<i>Notes</i>											
WBS Definition- Tape backup system											
336	1.5.5.3.1	evaluation	\$0.00	\$0.00	\$0.00						
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
<i>Notes</i>											
WBS Definition- Evaluate BACKUP options											
Labor BOE- Run2a experience											
<b>337</b>	<b>1.5.5.3.2</b>	<b>PO</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>						
<i>Notes</i>											
WBS Definition- Requisition and PO Creation Backup system											
338	1.5.5.3.3	delivery	\$0.00	\$0.00	\$0.00						
<i>Notes</i>											
WBS Definition- Delivery time											
339	1.5.5.3.4	commissioning	\$0.00	\$608.00	\$608.00						
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
16	COMPF	0.1	\$608.00	\$0.00	\$0.00	\$608.00	16 h	0 h	0 h	0 h	16 h
<i>Notes</i>											
WBS Definition- Installation, setup, and commissioning											
Labor BOE- Run2a experience											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost			Labor Cost			Total Cost			
340	1.5.5.3.5	operation	\$0.00			\$0.00			\$0.00			
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	38	OpCOMPF	0.05	\$0.00	\$0.00	\$0.00	\$0.00	300 h	0 h	0 h	0 h	300 h
	<u>Notes</u>											
	WBS Definition- Normal system operation tasks											
	Labor BOE- Run2a experience											
341	1.5.6	DAQ HOST systems	\$52,000.00			\$21,888.00			\$73,888.00			
	<u>Notes</u>											
	WBS Definition- Acquire and commission DAQ Host systems											
342	1.5.6.1	DAQ HOST node PO	\$52,000.00			\$0.00			\$52,000.00			
	<u>Notes</u>											
	WBS Definition- Requisition and PO creation											
343	1.5.6.1.1	DAQ HOST node PO 1	\$20,000.00			\$0.00			\$20,000.00			
	<u>Notes</u>											
	WBS Definition- Requisition and PO creation											
344	1.5.6.1.2	DAQ HOST node PO 2	\$32,000.00			\$0.00			\$32,000.00			
	<u>Notes</u>											
	WBS Definition- Requisition and PO creation											
345	1.5.6.2	DAQ HOST node delivery	\$0.00			\$0.00			\$0.00			
	<u>Notes</u>											
	WBS Definition- Delivery time											
346	1.5.6.2.1	DAQ HOST node delivery 1	\$0.00			\$0.00			\$0.00			
	<u>Notes</u>											
	WBS Definition- Delivery time											
347	1.5.6.2.2	DAQ HOST node delivery 2	\$0.00			\$0.00			\$0.00			
	<u>Notes</u>											
	WBS Definition- Delivery time											
348	1.5.6.3	DAQ HOST node commissioning	\$0.00			\$2,432.00			\$2,432.00			
	<u>Notes</u>											
	WBS Definition- Installation, setup, and commissioning											
349	1.5.6.3.1	DAQ HOST node commissioning 1	\$0.00			\$1,216.00			\$1,216.00			
	<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost						
"DAQ HOST node commissioning 1" continued											
<u>Notes</u>											
WBS Definition- Installation, setup, and commissioning											
Labor BOE- Run2a experience											
350	1.5.6.3.2	DAQ HOST node commissioning 2	\$0.00	\$1,216.00	\$1,216.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
<u>Notes</u>											
WBS Definition- Installation, setup, and commissioning											
Labor BOE- Run2a experience											
<b>351</b>	<b>1.5.6.4</b>	<b>DAQ HOST system 1 complete</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>						
<u>Notes</u>											
WBS Definition- System available to users											
352	1.5.6.5	DAQ HOST system 1 operation	\$0.00	\$9,728.00	\$9,728.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
16	COMPF	0.2	\$9,728.00	\$0.00	\$0.00	\$9,728.00	256 h	0 h	0 h	0 h	256 h
<u>Notes</u>											
WBS Definition- Normal system operations											
Labor BOE- Run2a experience											
<b>353</b>	<b>1.5.6.6</b>	<b>DAQ HOST system 2 complete</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>						
<u>Notes</u>											
WBS Definition- System available to users											
354	1.5.6.7	DAQ HOST system 2 operation	\$0.00	\$9,728.00	\$9,728.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
16	COMPF	0.2	\$9,728.00	\$0.00	\$0.00	\$9,728.00	256 h	0 h	0 h	0 h	256 h
<u>Notes</u>											
WBS Definition- Normal system operations											
Labor BOE- Run2a experience											
<b>355</b>	<b>1.5.7</b>	<b>ORACLE systems</b>	<b>\$52,000.00</b>	<b>\$99,712.00</b>	<b>\$151,712.00</b>						
<u>Notes</u>											
WBS Definition- Acquire and commission ORACLE database systems											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS		Name							M&S Cost	Labor Cost	Total Cost
356	1.5.7.1		Development ORACLE system evaluation							\$0.00	\$0.00	\$0.00
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	96 h	0 h	0 h	0 h	96 h
	<i>Notes</i>											
	WBS Definition- Evaluate ORACLE server options											
	Labor BOE- Run2a experience											
<b>357</b>	<b>1.5.7.2</b>		<b>Development ORACLE system purchase</b>							<b>\$20,000.00</b>	<b>\$0.00</b>	<b>\$20,000.00</b>
	<i>Notes</i>											
	WBS Definition- Requisition and PO Creation Development ORACLE system											
358	1.5.7.3		Development ORACLE system delivery							\$0.00	\$0.00	\$0.00
	<i>Notes</i>											
	WBS Definition- Delivery time											
359	1.5.7.4		Development ORACLE system commissioning							\$0.00	\$1,216.00	\$1,216.00
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
360	1.5.7.5		Development ORACLE system analysis							\$0.00	\$60,800.00	\$60,800.00
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	16	COMPF	1	\$60,800.00	\$0.00	\$0.00	\$60,800.00	1,600 h	0 h	0 h	0 h	1,600 h
	<i>Notes</i>											
	WBS Definition- Function, performance, and reliability measurements											
	Labor BOE- Run2a experience											
<b>361</b>	<b>1.5.7.6</b>		<b>Production ORACLE system purchase</b>							<b>\$32,000.00</b>	<b>\$0.00</b>	<b>\$32,000.00</b>
	<i>Notes</i>											
	WBS Definition- Requisition and PO Creation Production ORACLE system											
362	1.5.7.7		Production ORACLE system delivery							\$0.00	\$0.00	\$0.00
	<i>Notes</i>											
	WBS Definition- Delivery time											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost		Labor Cost		Total Cost					
363	1.5.7.8	Production ORACLE system commissioning	\$0.00	\$1,216.00			\$1,216.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.2	\$1,216.00	\$0.00	\$0.00	\$1,216.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Installation, setup, and commissioning											
	Labor BOE- Run2a experience											
364	1.5.7.9	ORACLE systems operation	\$0.00	\$36,480.00			\$36,480.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	16	COMPF	0.4	\$36,480.00	\$0.00	\$0.00	\$36,480.00	960 h	0 h	0 h	0 h	960 h
	<i>Notes</i>											
	WBS Definition- Normal system operations											
	Labor BOE- Run2a experience											
365	1.5.8	File Servers	\$40,000.00	\$16,416.00			\$56,416.00					
	<i>Notes</i>											
	WBS Definition- Acquire and commission File Server systems											
366	1.5.8.1	Backup File Server evaluation	\$0.00	\$0.00			\$0.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	32 h	0 h	0 h	0 h	32 h
	<i>Notes</i>											
	WBS Definition- Evaluate File server options											
	Labor BOE- Run2a experience											
367	1.5.8.2	Backup File Server purchase	\$20,000.00	\$0.00			\$20,000.00					
	<i>Notes</i>											
	WBS Definition- Requisition and PO Creation File server system											
368	1.5.8.3	Backup File Server delivery	\$0.00	\$0.00			\$0.00					
	<i>Notes</i>											
	WBS Definition- Delivery time											
369	1.5.8.4	Backup File Server commissioning	\$0.00	\$608.00			\$608.00					
	<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
	13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
	16	COMPF	0.1	\$608.00	\$0.00	\$0.00	\$608.00	16 h	0 h	0 h	0 h	16 h
	<i>Notes</i>											
	WBS Definition- Installation, setup, and commissioning											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name	M&S Cost	Labor Cost	Total Cost						
"Backup File Server commissioning" continued											
<u>Notes</u> Labor BOE- Run2a experience											
370	1.5.8.5	Backup File Server analysis	\$0.00	\$6,080.00	\$6,080.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
16	COMPF	0.1	\$6,080.00	\$0.00	\$0.00	\$6,080.00	160 h	0 h	0 h	0 h	160 h
<u>Notes</u> WBS Definition- Function, performance, and reliability measurements  Labor BOE- Run2a experience											
371	1.5.8.6	Primary File Server purchase	\$20,000.00	\$0.00	\$20,000.00						
<u>Notes</u> WBS Definition- Requisition and PO Creation File server system											
372	1.5.8.7	Primary File Server delivery	\$0.00	\$0.00	\$0.00						
<u>Notes</u> WBS Definition- Delivery time											
373	1.5.8.8	Primary File Server commissioning	\$0.00	\$608.00	\$608.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	16 h	0 h	0 h	0 h	16 h
16	COMPF	0.1	\$608.00	\$0.00	\$0.00	\$608.00	16 h	0 h	0 h	0 h	16 h
<u>Notes</u> WBS Definition- Installation, setup, and commissioning  Labor BOE- Run2a experience											
374	1.5.8.9	File Servers operation	\$0.00	\$9,120.00	\$9,120.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
16	COMPF	0.1	\$9,120.00	\$0.00	\$0.00	\$9,120.00	240 h	0 h	0 h	0 h	240 h
<u>Notes</u> WBS Definition- Normal system operations  Labor BOE- Run2a experience											
375	1.5.9	Control System Maintenance	\$0.00	\$0.00	\$0.00						
<u>Notes</u> WBS Definition- Operation and maintenance of Control System components											
376	1.5.9.1	Processor Replacements	\$0.00	\$0.00	\$0.00						
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
37	OpPHYSF	0.05	\$0.00	\$0.00	\$0.00	\$0.00	400 h	0 h	0 h	0 h	400 h

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name				M&S Cost	Labor Cost				Total Cost
"Processor Replacements" continued											
<u>Notes</u>											
WBS Definition- Operation and maintenance of 68K and PowerPC systems											
Labor BOE- Run2a experience											
377	1.5.9.2	1553 maintenance				\$0.00	\$0.00				\$0.00
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
37	OpPHYSF	0.05	\$0.00	\$0.00	\$0.00	\$0.00	400 h	0 h	0 h	0 h	400 h
<u>Notes</u>											
WBS Definition- Operation and maintenance of 1553 components											
Labor BOE- Run2a experience											
378	1.5.10	Management and Software maintenance				\$0.00	\$0.00				\$0.00
<u>Notes</u>											
WBS Definition- Continuing personnel task assignments											
379	1.5.10.1	Online Group management				\$0.00	\$0.00				\$0.00
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
13	PHYSF	0.1	\$0.00	\$0.00	\$0.00	\$0.00	1,000 h	0 h	0 h	0 h	1,000 h
<u>Notes</u>											
WBS Definition- Meetings, reports, reviews, personnel											
Labor BOE- Run2a experience											
380	1.5.10.2	System management				\$0.00	\$0.00				\$0.00
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
38	OpCOMPF	0.5	\$0.00	\$0.00	\$0.00	\$0.00	5,000 h	0 h	0 h	0 h	5,000 h
<u>Notes</u>											
WBS Definition- Operating system and hardware maintenance											
Labor BOE- Run2a experience											
381	1.5.10.3	ORACLE DBAs				\$0.00	\$0.00				\$0.00
<u>ID</u>	<u>Resource Name</u>	<u>Units</u>	<u>Cost</u>	<u>Baseline Cost</u>	<u>Act. Cost</u>	<u>Rem. Cost</u>	<u>Work</u>	<u>Ovt. Work</u>	<u>Baseline Work</u>	<u>Act. Work</u>	<u>Rem. Work</u>
38	OpCOMPF	1.5	\$0.00	\$0.00	\$0.00	\$0.00	15,000 h	0 h	0 h	0 h	15,000 h
<u>Notes</u>											
WBS Definition- ORACLE database maintenance and development											
Labor BOE- Run2a experience											

WBS Dictionary and Labor BOE as of 4/8/02  
 Online  
 Run2b\_Trigger\_Schedule\_4-7-02

ID	WBS	Name			M&S Cost	Labor Cost	Total Cost				
382	1.5.10.4	Control System software maintenance			\$0.00	\$0.00	\$0.00				
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
38	OpCOMPF	1.5	\$0.00	\$0.00	\$0.00	\$0.00	15,000 h	0 h	0 h	0 h	15,000 h
<i>Notes</i>											
WBS Definition- Control system maintenance and development											
Labor BOE- Run2a experience											
383	1.5.10.5	DAQ software maintenance			\$0.00	\$0.00	\$0.00				
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
38	OpCOMPF	1	\$0.00	\$0.00	\$0.00	\$0.00	10,000 h	0 h	0 h	0 h	10,000 h
<i>Notes</i>											
WBS Definition- DAQ application maintenance and development											
Labor BOE- Run2a experience											
384	1.5.10.6	Online application maintenance			\$0.00	\$0.00	\$0.00				
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
38	OpCOMPF	0.5	\$0.00	\$0.00	\$0.00	\$0.00	5,000 h	0 h	0 h	0 h	5,000 h
<i>Notes</i>											
WBS Definition- Specialized application maintenance and development											
Labor BOE- Run2a experience											
385	1.5.10.7	Detector monitoring software maintenance			\$0.00	\$0.00	\$0.00				
<i>ID</i>	<i>Resource Name</i>	<i>Units</i>	<i>Cost</i>	<i>Baseline Cost</i>	<i>Act. Cost</i>	<i>Rem. Cost</i>	<i>Work</i>	<i>Ovt. Work</i>	<i>Baseline Work</i>	<i>Act. Work</i>	<i>Rem. Work</i>
37	OpPHYSF	2	\$0.00	\$0.00	\$0.00	\$0.00	20,000 h	0 h	0 h	0 h	20,000 h
<i>Notes</i>											
WBS Definition- Hardware and event data monitoring maintenance and development											
Labor BOE- Run2a experience											