

**Office of Project Assessment  
Office of Science**

**COVID-19 Project Impact Worksheet**

Due to the current situation concerning the COVID-19 health crisis, it is anticipated that current projects within the Department of Energy/Office of Science (DOE/SC) could be impacted for a variety of reasons. In order to track and evaluate these impacts it is essential that all DOE/SC and SC National Laboratory personnel identify, monitor, and document these impacts. The purpose of this worksheet is to assist with tracking and capturing the appropriate information that will be necessary to support the impacts for future consideration and allow for quantitative assessment within an appropriate timeframe. This worksheet is intended to assist as a tracking mechanism and should be used to capture the nature of all project impacts related to the COVID-19 health crisis. These impacts could also justify additional costs.

**Applicability:** All projects greater than \$20M should complete the form on a bi-weekly basis. The expectation is that the Program Managers will receive input from the Federal Project Director (FPD) in concert with the Project Director/Project Manager. It is expected that this could be an iterative process to allow different input to be incorporated.

**Reporting Frequency:** The form is intended to be filed periodically, and the reporting cadence will be bi-weekly. However, it could also be updated on an “events-driven” basis in order to track and assess most current data.

**Impact Criteria/Report Format:** The template is intended to be used as a guide, the project /program team should be evaluating project impacts on both a tactical and strategic level of COVID-related project risks/issues. Any supporting data (e.g., Excel worksheets) may be appended as necessary.

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<b>Overview Information</b>	
Date of Report	June 15, 2020
Project Name	sPHENIX
Laboratory/Project Location	Brookhaven National Laboratory
SC Program Office	Nuclear Physics
Federal Project Director	Robert Caradonna – BHSO Point of Contact
Project Director	Edward O'Brien

<b>Project Status (as of date) May 31, 2020</b>		
Project Type	Line Item / Major Item of Equipment (MIE)	
CD-1	Planned: Aug 2018	Actual: Aug 2018
PD-2/3	Planned: Sep 2019	Actual: Sep 2019
PD-4	Planned: Dec 2022	Actual:
TPC Percent Complete	Planned: % 51.2	Actual: % 46.4
TPC Cost to Date	\$9,913K	
TPC Committed to Date	\$5,132K	
TPC	\$27,000K	
TEC	\$20,577k	
OPC	\$6,423K	
Contingency - Cost	\$4,823K	% to go 40.6
Contingency - Schedule	13 months	% to go 72.2

<b>COVID-19 Cost and Schedule Impacts</b>				
		<b>Cost Impact</b>		
		<b>High Impact</b>	<b>Most Likely Impact</b>	<b>Low Impact</b>
TPC	\$27,000K	\$0	\$0	\$0
TEC	\$20,577K	\$0	\$0	\$0
OPC - Complete	\$6,423K	\$0	\$0	\$0
		<b>Schedule Impact (in months)</b>		
		<b>High Impact</b>	<b>Most Likely Impact</b>	<b>Low Impact</b>
		No impact on PD-4 date*	No impact on PD-4 date*	No impact on PD-4 date*

\*Note: In order to maintain the early completion date and associated 13 months of schedule float to PD-4, the sPHENIX project will have to expend significant amounts of budget contingency. Even with this mitigation approach fully implemented it is likely that the early completion date

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will be delayed between four months for the most likely impact and six months for the high impact. However the PD-4 date will not be impacted.

**BNL began resumption of Operations for Phase 1 (Continuation of Essential Mission Critical Operations and beginning of Limited Operations) on June 4, 2020.**

**Current Project Stage / Most Recent Critical Decision:**

**If the most recent critical decision was CD-1 or CD-2**, are remote capabilities sufficient to keep project reasonably on schedule? Provide an overview of activities.

N/A

**For projects beyond CD-3/CD-3(x) ONLY, provide the following:**

- What are the current site conditions? BNL is in Phase 1 as of June 4. All sPHENIX work is remote.
- Identify any potential Safeguards and Security and/or Environmental, Health and Safety concerns. None
- What type of work continues to be performed, identify whether remote, or onsite? All work is remote from BNL. Work that continues to be performed includes remote engineering, design, procurement, documentation, project management and fabrication at vendors. Work at some university collaborating institutions and vendors is continuing.
- What type of work has been stopped or delayed? What is the nature of the delay? All fabrication work at BNL and most work at universities has been stopped or delayed.
- Are the delays beyond the control of the contractors or vendors in performing the work scope? Yes
- Can the impacts be readily quantified (cost/schedule impacts)? No cost impacts except those associated with maintaining the early completion date. The schedule contingency will be used while BNL and collaborating universities remain closed if it is not possible to mitigate the delays with other approaches. Mitigation strategies are being developed to recover lost schedule time after BNL and the universities reopen. The early completion date has not yet been affected but it is anticipated that the early completion date will be delayed as the COVID-19 work pause continues at many sites where sPHENIX work is being performed.

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- What are the potential impacts to the contract (possible REAs/draws on contingency)?  
None
  
- Are any delays resulting from supply chain disruption? Yes. Electronics and material deliveries have been delayed due to COVID-19.
  
- Are overseas vendors being impacted? Yes. Overseas vendor deliveries have experienced delays due to COVID-19.
  
- Has the contractor demobilized? Yes
  
- If project is in stand-by / shutdown status, provide a summary of what will be required to restart activities. BNL must move from a min-safe mode to a low-density work mode. A graduated return to work is proposed by BNL to proceed in multiple steps, each increasing the workforce on site by approximately 5-10% of the total BNL workforce. Under this plan, additional personnel working on the sPHENIX project would return in each of the steps, and as they return sPHENIX production activities would restart at BNL. BNL moved from min-safe to essential mission critical starting June 4. sPHENIX work is scheduled to restart on-site at BNL June 18.
  
- Any additional impacts to the DOE/SC mission not considered above? None

Note: sPHENIX Project Management will do a full assessment of the impact of the COVID-19 pandemic on the project cost and schedule once the re-start schedule for BNL, collaborating universities and vendors is better determined.