



November 6, 2018

Mr. Fausto Fernandez  
 Contracting Officer  
 Business Management Division  
 U.S. Department of Energy  
 Brookhaven Site Office  
 Building 464  
 Upton, NY 11973

**SUBJECT: BSA's Performance Commitment for Fiscal Year ("FY") 2018 Relative to the Accepted Commitments for FY 2015 – FY 2025**

Dear Mr. Fernandez:

Brookhaven Science Associates, LLC ("BSA"), in its capacity as manager and operator of Brookhaven National Laboratory ("BNL"), has proposed, and the Department of Energy ("DOE") has accepted, over \$118M in commitments over the next decade from external sources to support our vision for BNL.

Contract No. DE-SC0012704 Section J - Appendix B (the "Contract") required an annual performance plan by BSA that provided the DOE an objective measurement of BSA's Commitments that advance the Laboratory mission, as stated in PEMP 4.3.

The table below reflects the cumulative commitment dollars delivered in prior years, the FY18 commitment plan, FY18 actual delivered and the estimated value of commitments over the decade. Since the award of Contract, the amounts attributable to specific items have been refined. Notwithstanding, the total Commitments remain firm. In addition, following the table, I have laid out the progress for actions associated with New York State funding as of the end of FY18 under the "Action Plan/Milestones" section below.

Source/Commitment	Alignment with BSA's Critical Outcomes or Other Initiatives	Delivery Timeframe	Prior Year Cumulative Total	FY18 Actual Delivered	Estimated Total Value (millions)
<b>New York State</b>					
High-Energy X-ray Beamline at NSLS-II	Transformation of synchrotron science; in operando/in situ energy science	2015–2020	\$3M	\$599K	\$25M
Energy Recovery Linac (ERL)	Origins of matter and mass	2015–2020	\$9.178M	\$9.845M	\$25M
Establish Big Data Consortium–Center	Data-driven discovery	2015–2020	\$750K	\$1.5M	\$15M

Source/Commitment	Alignment with BSA's Critical Outcomes or Other Initiatives	Delivery Timeframe	Prior Year Cumulative Total	FY18 Actual Delivered	Estimated Total Value (millions)
for Data-Driven Discovery (C3D)					
CryoEM	Materials & Chemical Complexity: NSLS-II, CFN		\$-	\$9.8M	
<b>NYS Total</b>			<b>\$12.928M</b>	<b>\$21.744M</b>	<b>\$65.0M</b>
<b>Brookhaven Science Associates</b>					
Capitalize Agreements for Commercializing Technology (ACT) and non-federal Work for Others (WFO) to accelerate Laboratory growth agenda	Growth in WFO, energy technology; workforce development; community relations	2015-2025	\$2.366M	\$28K	\$3.2M
STEM education and community outreach	Workforce development; community relations	2015-2025	\$740K	\$252K	\$2.0M
Laboratory employee college scholarships	Workforce attraction and retention	2015-2025	\$393K	\$66K	\$1.22M
Laboratory Director discretionary funds	All Critical Outcomes	2015-2025	\$4.466M	\$1.409M	\$15.78M
<b>BSA Total</b>			<b>\$7.965M</b>	<b>\$1.755M</b>	<b>\$22.2M</b>
<b>Stony Brook University</b>					
Stony Brook-BNL Joint Appointments	Synchrotron Sciences; Energy Sciences; High-Energy Physics (HEP); Environmental; Data-driven Discovery	2015-2025	\$10.851M	\$6.024M	\$26.2M
Stony Brook-BNL Seed Grant Program and other related support	All Science Critical Outcomes	2015-2025	\$682K	\$397K	\$2M
<b>Stony Brook Total</b>			<b>\$11.533M</b>	<b>\$6.421M</b>	<b>\$28.2M</b>
<b>Partner Universities</b>					
Partner Universities - BNL Joint Appointments	Transformation of synchrotron science; in operando/in situ energy science	2015-2020	\$3.797M	\$2.504M	\$3.0M
<b>Partner Universities Total</b>			<b>\$3.797M</b>	<b>\$2.504M</b>	<b>\$3.0M</b>
<b>GRAND TOTAL</b>			<b>\$36.223M</b>	<b>\$32.424M</b>	<b>\$118.4M</b>

**\*Action Plan/Milestones:**

With respect to the New York State funding, we made the following progress during FY 2018:

Establish Big Data Consortium–Center for Data-Driven Discovery (“C3D”): The project agreement is fully signed and executed. Empire State Development Corporation issued an advance of \$.75M to commence work. BNL has received \$2.250M in total funding. In addition, BSA has provided up to \$1.9M in royalty funds to assist with project cash flow challenges.

Energy Recovery Linac (“ERL”): The ERL project agreement is fully signed and executed. BNL has received \$19.023M in total funding inclusive of a \$2M advance to commence work in the beginning of FY 2017 and another \$2M for successfully meeting a go/no go decision point. Currently focused on milestone #7 and #8. Milestone #7 should be achieved by November 30<sup>th</sup>.

High-Energy X-ray (“HEX”) Beamline at NSLS-II: The HEX project agreement is fully signed and executed. NYSERDA issued a \$3M advance in FY 2017 to commence work. The total project award amount is \$25M.

CryoEM: The Cryo-EM project secured DOE approval. Contract with ESDC fully signed and executed. Received \$9.8M. Paperwork submitted for the release of \$5.2M in funding.

We continue to be actively engaged in discussions with officials within the State Administration to secure all funding to support these important projects. We will continue to keep you updated on our progress.

If you have any questions, please do not hesitate to contact me.

Sincerely,



George Clark  
Chief Financial Officer

cc: J. Anderson (BSA/BNL)  
B. Bosley (Battelle)  
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