

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                 | WFO | WFO Title | Local Use | Local Use Code               | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|---|-----|-----------|-----------|------------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 150       | 089-X-0213      | -2018              | 25400        | Operation          | AA600000C          | C002841 | 1611272 | AA6070000, Transformative Power Generatio     | 0   |           | 302017    | TCF Funding - Managed by OTT | \$0.00                         | \$488,763.00              | \$0.00                  | \$488,763.00             | \$488,763.00    |
| 150       | 089-X-0213      | -2014              | 25400        | Operation          | AA600000C          | C002841 | 1611051 | AA6010000, Advanced Combustion Systems        | 0   |           | 302017    | TCF Funding - Managed by OTT | \$463.00                       | \$0.00                    | \$0.00                  | \$0.00                   | \$463.00        |
| 150       | 089-X-0213      | -2016              | 25400        | Operation          | AA600000C          | C002841 | 1611051 | AA6010000, Advanced Combustion Systems        | 0   |           | 302017    | TCF Funding - Managed by OTT | \$124,028.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$124,028.00    |
| 150       | 089-X-0213      | -2017              | 25400        | Operation          | AA600000C          | C002841 | 1611051 | AA6010000, Advanced Combustion Systems        | 0   |           | 302017    | TCF Funding - Managed by OTT | \$121,207.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$121,207.00    |
| 150       | 089-X-0213      | -2015              | 25400        | Operation          | AA600000C          | C002841 | 1611051 | AA6010000, Advanced Combustion Systems        | 0   |           | 302017    | TCF Funding - Managed by OTT | \$15,539.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$15,539.00     |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | KP000000C          | C001024 | 2924203 | KP1601040, Computational Biosciences          | 0   |           | 0         | Default Local Use Value      | \$415,197.40                   | \$0.00                    | \$0.00                  | \$0.00                   | \$415,197.40    |
| 500       | 089-X-0222      | -2017              | 32003        | Accelerator        | KA000000C          | C002852 | 2924382 | KA2602010, Accelerator Operations and Supp    | 0   |           | 485395    | CHAIP                        | \$892,530.03                   | \$0.00                    | \$0.00                  | \$0.00                   | \$892,530.03    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KB000000C          | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper   | 0   |           | 0         | Default Local Use Value      | \$2,878,588.37                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,878,588.37  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KB000000C          | C001009 | 2923746 | KB0301020, Theory, National Laboratory Rese   | 0   |           | 0         | Default Local Use Value      | \$2,050,352.25                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,050,352.25  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2923803 | KC0301020, Chemical Physics                   | 0   |           | 0         | Default Local Use Value      | \$625,908.28                   | \$0.00                    | \$0.00                  | \$0.00                   | \$625,908.28    |
| 500       | 089-X-0222      | -2017              | 31003        | Other Equip        | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc   | 0   |           | 485396    | CHEQU                        | \$1,454,488.91                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,454,488.91  |
| 500       | 089-X-0222      | -2017              | 31003        | Other Equip        | KB000000C          | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper   | 0   |           | 485396    | CHEQU                        | \$1,094,000.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,094,000.00  |
| 500       | 089-X-0222      | -2017              | 31003        | Other Equip        | KA000000C          | C002852 | 2924363 | KA2403013, Other Projects                     | 0   |           | 485396    | CHEQU                        | \$750,000.00                   | \$0.00                    | -\$750,000.00           | -\$750,000.00            | \$0.00          |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924460 | KC0301050, Condensed Phase & Interfacial M    | 0   |           | 0         | Default Local Use Value      | \$379,501.80                   | \$0.00                    | \$0.00                  | \$0.00                   | \$379,501.80    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KP000000C          | C001024 | 2924462 | KP1703040, Climate Model Development and      | 0   |           | 0         | Default Local Use Value      | \$1,431,000.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,431,000.00  |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | KJ0000000          | C001018 | 2924135 | KJ0402000, Computer Sciences Research         | 0   |           | 0         | Default Local Use Value      | \$200,953.34                   | \$0.00                    | \$0.00                  | \$0.00                   | \$200,953.34    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KP000000C          | C001024 | 2924203 | KP1601040, Computational Biosciences          | 0   |           | 0         | Default Local Use Value      | \$492,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$492,000.00    |
| 500       | 089-X-0222      | -2017              | 31001        | Major Item         | KA000000C          | C002852 | 2924350 | KA2303011, MIE                                | 0   |           | 4809008   | CHEQUMIE11WB                 | \$2,334,659.11                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,334,659.11  |
| 500       | 089-X-0222      | -2017              | 32003        | Accelerator        | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc   | 0   |           | 485395    | CHAIP                        | \$1,800,000.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,800,000.00  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924336 | KA2202090, Other Facilities                   | 0   |           | 0         | Default Local Use Value      | \$16,370.35                    | \$0.00                    | \$0.00                  | \$0.00                   | \$16,370.35     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 3023325 | KC0203020, Synthesis and Processing Science   | 0   |           | 0         | Default Local Use Value      | \$887,796.19                   | \$0.00                    | \$0.00                  | \$0.00                   | \$887,796.19    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | FS1000000          | C000984 | 2923653 | FS1002000, Security Systems                   | 0   |           | 0         | Default Local Use Value      | \$750,295.68                   | \$0.00                    | \$0.00                  | \$0.00                   | \$750,295.68    |
| 500       | 089-X-0222      | -2007              | 25400        | Operation          | KP000000C          | C001024 | 2923849 | KP1102010, Molecular Biology                  | 0   |           | 0         | Default Local Use Value      | \$16.33                        | \$0.00                    | \$0.00                  | \$0.00                   | \$16.33         |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924320 | KA2103011, MIE                                | 0   |           | 485493    | CHOPEMIE61BM                 | \$1,149,482.75                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,149,482.75  |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | KJ0000000          | C001018 | 2924137 | KJ0404000, Next Generation Networking for S   | 0   |           | 0         | Default Local Use Value      | \$70,692.64                    | \$0.00                    | \$0.00                  | \$0.00                   | \$70,692.64     |
| 500       | 089-X-0222      | -2018              | 32002        | General Pla        | KG070000C          | C002925 | 2924416 | KG0701000, Facilities and Infrastructure      | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$13,500,000.00           | \$0.00                  | \$13,500,000.00          | \$13,500,000.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924405 | KC0201060, Neutron and X-Ray Scatering        | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$1,502,000.00            | \$1,288,000.00          | \$2,790,000.00           | \$2,790,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924317 | KA2102021, ATLAS Detector and Computing S     | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$15,690,000.00           | \$5,099,000.00          | \$20,789,000.00          | \$20,789,000.00 |
| 500       | 089-X-0222      | -2018              | 31001        | Major Item         | KA000000C          | C002852 | 2924350 | KA2303011, MIE                                | 0   |           | 4809008   | CHEQUMIE11WB                 | \$0.00                         | \$500,000.00              | \$0.00                  | \$500,000.00             | \$500,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | FS1000000          | C000984 | 2923655 | FS1005000, Cyber Security                     | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$3,102,000.00            | \$0.00                  | \$3,102,000.00           | \$3,102,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924358 | KA2401022, Scientific Computing               | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$123,000.00              | \$22,000.00             | \$145,000.00             | \$145,000.00    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924305 | KC0406020, Accelerator and Detector Researc   | 0   |           | 0         | Default Local Use Value      | \$518,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$518,000.00    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924346 | KA2301020, National Laboratories              | 0   |           | 0         | Default Local Use Value      | \$591,900.79                   | \$0.00                    | \$0.00                  | \$0.00                   | \$591,900.79    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924313 | KA2101020, National Laboratories              | 0   |           | 0         | Default Local Use Value      | \$2,551,418.41                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,551,418.41  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924366 | KA2501012, National Laboratories              | 0   |           | 0         | Default Local Use Value      | \$924.97                       | \$0.00                    | \$0.00                  | \$0.00                   | \$924.97        |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924300 | KC0304030, Solar Photochemistry               | 0   |           | 0         | Default Local Use Value      | \$2,845,516.62                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,845,516.62  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KP000000C          | C001024 | 2924209 | KP1605010, Structural Biology Infrastructure  | 0   |           | 0         | Default Local Use Value      | \$2,440,282.49                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,440,282.49  |
| 500       | 089-X-0222      | -2012              | 25400        | Operation          | KA000000C          | C002852 | 2923679 | KA1102080, Proton Facilities - Other          | 0   |           | 0         | Default Local Use Value      | \$1,492.25                     | -\$74.17                  | \$0.00                  | -\$74.17                 | \$1,418.08      |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | KA000000C          | C002852 | 2924369 | KA2501022, Muon Accelerators                  | 0   |           | 0         | Default Local Use Value      | \$490,519.01                   | \$0.00                    | \$0.00                  | \$0.00                   | \$490,519.01    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KB000000C          | C001009 | 2923755 | KB0401022, Low Energy, Other National Labo    | 0   |           | 0         | Default Local Use Value      | \$257,562.78                   | \$0.00                    | \$0.00                  | \$0.00                   | \$257,562.78    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924314 | KA2101030, University Service Accounts        | 0   |           | 0         | Default Local Use Value      | \$138,670.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$138,670.00    |
| 500       | 089-X-0222      | -2011              | 25400        | Operation          | KP000000C          | C001024 | 2924206 | KP1602020, Radiobiology                       | 0   |           | 0         | Default Local Use Value      | \$75,857.94                    | -\$2,470.58               | \$0.00                  | -\$2,470.58              | \$73,387.36     |
| 500       | 089-X-0222      | -2014              | 25400        | Operation          | KA000000C          | C002852 | 2923681 | KA1102812, Proton Facilities - Chng in Invent | 0   |           | 0         | Default Local Use Value      | \$433,221.38                   | \$0.00                    | \$0.00                  | \$0.00                   | \$433,221.38    |
| 500       | 089-X-0222      | -2016              | 31003        | Other Equip        | KC000000C          | C002853 | 2924242 | KC0403020, Center for Functional Nanomater    | 0   |           | 485396    | CHEQU                        | \$410,798.13                   | \$0.00                    | \$0.00                  | \$0.00                   | \$410,798.13    |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | KP000000C          | C001024 | 2924209 | KP1605010, Structural Biology Infrastructure  | 0   |           | 0         | Default Local Use Value      | \$159,617.13                   | \$0.00                    | \$0.00                  | \$0.00                   | \$159,617.13    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924380 | KA2601020, National Laboratories              | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$223,000.00              | \$69,000.00             | \$292,000.00             | \$292,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924421 | KC0406030, Long Term Surveillance and Main    | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$4,473,000.00            | \$1,800,000.00          | \$6,273,000.00           | \$6,273,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924368 | KA2501021, LHC Accelerator Research           | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$1,411,000.00            | \$151,000.00            | \$1,562,000.00           | \$1,562,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924336 | KA2202090, Other Facilities                   | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$276,000.00              | \$91,000.00             | \$367,000.00             | \$367,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KB000000C          | C001009 | 2923737 | KB0202012, Heavy Ion, RHIC Experimental Sup   | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$23,867,000.00           | \$16,609,293.00         | \$40,476,293.00          | \$40,476,293.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KP000000C          | C001024 | 2924209 | KP1605010, Structural Biology Infrastructure  | 0   |           | 0         | Default Local Use Value      | \$0.00                         | \$1,901,000.00            | \$599,000.00            | \$2,500,000.00           | \$2,500,000.00  |

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| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                | WFO | WFO Title | Local Use | Local Use Code          | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available  |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|--|-----|-----------|-----------|-------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|------------------|
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KA000000C         | C002852 | 2924313 | KA2101020, National Laboratories             | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$3,575,000.00            | \$1,191,000.00          | \$4,766,000.00           | \$4,766,000.00   |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | :KC000000C         | C002853 | 2924447 | KC0213010, Computational Materials Science   | 0   |           | 0         | Default Local Use Value | \$2,141,187.26                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,141,187.26   |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | :KP000000C         | C001024 | 2924205 | KP1602010, Radiochemistry and Imaging Instr  | 0   |           | 0         | Default Local Use Value | \$521,900.65                   | -\$521,900.65             | \$0.00                  | -\$521,900.65            | \$0.00           |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :FS1000000         | C000984 | 2923652 | FS1001000, Protective Forces                 | 0   |           | 0         | Default Local Use Value | \$633,591.08                   | \$0.00                    | \$0.00                  | \$0.00                   | \$633,591.08     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KC000000C         | C002853 | 2924299 | KC0304020, Physical Biosciences              | 0   |           | 0         | Default Local Use Value | \$1,286,114.39                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,286,114.39   |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924358 | KA2401022, Scientific Computing              | 0   |           | 0         | Default Local Use Value | \$232,519.94                   | \$0.00                    | \$0.00                  | \$0.00                   | \$232,519.94     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :FS1000000         | C000984 | 2923658 | FS1009000, Program Management                | 0   |           | 0         | Default Local Use Value | \$511,951.37                   | \$0.00                    | \$0.00                  | \$0.00                   | \$511,951.37     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KP000000C         | C001024 | 2924211 | KP1701000, Atmospheric System Research       | 0   |           | 0         | Default Local Use Value | \$1,194,416.20                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,194,416.20   |
| 500       | 089-X-0222      | -2016              | 25400        | Operation          | :KL0000000         | C001021 | 2924408 | KL1003000, Visiting Faculty Program          | 0   |           | 0         | Default Local Use Value | \$4,603.33                     | \$0.00                    | \$0.00                  | \$0.00                   | \$4,603.33       |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KB000000C         | C001009 | 2923721 | KB0101022, Medium Energy, Other National L   | 0   |           | 0         | Default Local Use Value | \$348,402.54                   | \$0.00                    | \$0.00                  | \$0.00                   | \$348,402.54     |
| 500       | 089-X-0222      | -2015              | 25400        | Operation          | :KA000000C         | C002852 | 2924342 | KA2203012, Line Item OPC                     | 0   |           | 0         | Default Local Use Value | \$219.26                       | -\$219.26                 | \$0.00                  | -\$219.26                | \$0.00           |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924363 | KA2403013, Other Projects                    | 0   |           | 0         | Default Local Use Value | \$107,115.36                   | \$0.00                    | \$750,000.00            | \$750,000.00             | \$857,115.36     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :FS1000000         | C000984 | 2923656 | FS1006000, Personnel Security                | 0   |           | 0         | Default Local Use Value | \$214,863.42                   | \$0.00                    | \$0.00                  | \$0.00                   | \$214,863.42     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KL0000000         | C001021 | 2924406 | KL1001000, Science Undergraduate Laborator   | 0   |           | 0         | Default Local Use Value | \$553,646.70                   | \$0.00                    | \$0.00                  | \$0.00                   | \$553,646.70     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924357 | KA2401021, Scientific Discovery through Adv  | 0   |           | 0         | Default Local Use Value | \$120,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$120,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KC000000C         | C002853 | 2923803 | KC0301020, Chemical Physics                  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$320,000.00              | \$130,000.00            | \$450,000.00             | \$450,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KA000000C         | C002852 | 2924328 | KA2202010, Experimental Operations and Sup   | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$1,154,000.00            | \$561,000.00            | \$1,715,000.00           | \$1,715,000.00   |
| 500       | 089-X-0222      | -2018              | 32003        | Accelerator        | :KB000000C         | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper  | 0   |           | 485395    | CHAIP                   | \$0.00                         | \$1,456,000.00            | \$984,000.00            | \$2,440,000.00           | \$2,440,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KC000000C         | C002853 | 3023325 | KC0203020, Synthesis and Processing Science  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$1,187,000.00            | \$484,000.00            | \$1,671,000.00           | \$1,671,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KL0000000         | C001021 | 2924407 | KL1002000, Community College Internship Pr   | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$120,000.00              | \$0.00                  | \$120,000.00             | \$120,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KC000000C         | C002853 | 2924299 | KC0304020, Physical Biosciences              | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$1,889,000.00            | \$772,000.00            | \$2,661,000.00           | \$2,661,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KP000000C         | C001024 | 2924216 | KP1703020, Earth System Modeling             | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$0.00                    | \$231,000.00            | \$231,000.00             | \$231,000.00     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924380 | KA2601020, National Laboratories             | 0   |           | 0         | Default Local Use Value | \$350,944.67                   | \$0.00                    | \$0.00                  | \$0.00                   | \$350,944.67     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KC000000C         | C002853 | 2923775 | KC0202030, DO NOT USE!!! Condensed Mat       | 0   |           | 0         | Default Local Use Value | \$183,023.62                   | \$0.00                    | \$0.00                  | \$0.00                   | \$183,023.62     |
| 500       | 089-X-0222      | -2007              | 31003        | Other Equip        | :KP000000C         | C001024 | 2923848 | KP1101010, Structural Biology                | 0   |           | 485396    | CHEQU                   | \$39,292.45                    | -\$39,292.45              | \$0.00                  | -\$39,292.45             | \$0.00           |
| 500       | 089-X-0222      | -2015              | 25400        | Operation          | :KA000000C         | C002852 | 2924313 | KA2101020, National Laboratories             | 0   |           | 485474    | CHOPEMIE30YD            | \$43,502.97                    | \$0.00                    | \$0.00                  | \$0.00                   | \$43,502.97      |
| 500       | 089-X-0222      | -2015              | 25400        | Operation          | :KP000000C         | C001024 | 2924417 | KP1606000, STARTING IN FY 2018, DO NOT US    | 0   |           | 0         | Default Local Use Value | \$426,274.76                   | \$0.00                    | \$0.00                  | \$0.00                   | \$426,274.76     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KB000000C         | C001009 | 2923733 | KB0201021, Heavy Ion, RHIC Research          | 0   |           | 0         | Default Local Use Value | \$1,821,032.34                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,821,032.34   |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KB000000C         | C001009 | 2923752 | KB0301052, Theory, SciDAC, National Laborat  | 0   |           | 0         | Default Local Use Value | \$367,444.68                   | \$0.00                    | \$0.00                  | \$0.00                   | \$367,444.68     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KB000000C         | C001009 | 2924156 | KB0201052, Heavy Ion Accelerator R&D Natl L  | 0   |           | 0         | Default Local Use Value | \$817,467.84                   | \$0.00                    | \$0.00                  | \$0.00                   | \$817,467.84     |
| 500       | 089-X-0222      | -2017              | 32001        | Constructio        | :39KG0100C         | C003087 | 2924481 | 39KG01000PRN17SC73000 Core Facility Revit    | 0   |           | 0         | Default Local Use Value | \$1,772,460.86                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,772,460.86   |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KC000000C         | C002853 | 2924295 | KC0202050, Physical Behavior of Materials    | 0   |           | 0         | Default Local Use Value | \$19,932.29                    | \$0.00                    | \$0.00                  | \$0.00                   | \$19,932.29      |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924368 | KA2501021, LHC Accelerator Research          | 0   |           | 0         | Default Local Use Value | \$1,191,242.15                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,191,242.15   |
| 500       | 089-X-0222      | -2017              | 31003        | Other Equip        | :KB000000C         | C001009 | 2923737 | KB0202012, Heavy Ion, RHIC Experimental Sup  | 0   |           | 485396    | CHEQU                   | \$2,650,000.00                 | -\$2,318,685.09           | \$0.00                  | -\$2,318,685.09          | \$331,314.91     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KL0000000         | C001021 | 2924414 | KL1500000, Outreach                          | 0   |           | 0         | Default Local Use Value | \$76,950.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$76,950.00      |
| 500       | 089-X-0222      | -2011              | 31003        | Other Equip        | :KC000000C         | C002853 | 3023325 | KC0203020, Synthesis and Processing Science  | 0   |           | 485396    | CHEQU                   | \$2,515.98                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,515.98       |
| 500       | 089-X-0222      | -2015              | 25400        | Operation          | :KP000000C         | C001024 | 2924200 | KP1601010, Foundational Genomics Research    | 0   |           | 0         | Default Local Use Value | \$180,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$180,000.00     |
| 500       | 089-X-0222      | -2016              | 31003        | Other Equip        | :KB000000C         | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper  | 0   |           | 485396    | CHEQU                   | \$756,638.70                   | \$0.00                    | \$0.00                  | \$0.00                   | \$756,638.70     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KJ0000000         | C001018 | 2924474 | KJ0402010, Computer Sciences - Research      | 0   |           | 0         | Default Local Use Value | \$450,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$450,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KB000000C         | C001009 | 2923749 | KB0301042, Theory, Nuclear Data, National Le | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$2,137,000.00            | \$1,434,000.00          | \$3,571,000.00           | \$3,571,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KB000000C         | C001009 | 2923746 | KB0301020, Theory, National Laboratory Rese  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$2,342,000.00            | \$1,223,000.00          | \$3,565,000.00           | \$3,565,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :FS1000000         | C000984 | 2923653 | FS1002000, Security Systems                  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$824,000.00              | \$0.00                  | \$824,000.00             | \$824,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KP000000C         | C001024 | 2924211 | KP1701000, Atmospheric System Research       | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$3,534,000.00            | \$315,000.00            | \$3,849,000.00           | \$3,849,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KB000000C         | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$82,771,000.00           | \$50,073,000.00         | \$132,844,000.00         | \$132,844,000.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :FS1000000         | C000984 | 2923654 | FS1004000, Information Security              | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$468,000.00              | \$0.00                  | \$468,000.00             | \$468,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KC000000C         | C002853 | 2924504 | KC0202021, Experimental Condensed Matter     | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$1,207,000.00            | \$493,000.00            | \$1,700,000.00           | \$1,700,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KP000000C         | C001024 | 2924203 | KP1601040, Computational Biosciences         | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$370,000.00              | \$0.00                  | \$370,000.00             | \$370,000.00     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KA000000C         | C002852 | 2924496 | KA2602020, Accelerator Test Facility ATF Op  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$3,043,000.00            | \$1,757,000.00          | \$4,800,000.00           | \$4,800,000.00   |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | :KA000000C         | C002852 | 2924371 | KA2501032, National Laboratories             | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$800,000.00              | \$267,000.00            | \$1,067,000.00           | \$1,067,000.00   |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :KA000000C         | C002852 | 2924317 | KA2102021, ATLAS Detector and Computing S    | 0   |           | 0         | Default Local Use Value | \$9,236,115.22                 | \$0.00                    | \$0.00                  | \$0.00                   | \$9,236,115.22   |
| 500       | 089-X-0222      | -2013              | 25400        | Operation          | :KP000000C         | C001024 | 2924200 | KP1601010, Foundational Genomics Research    | 0   |           | 0         | Default Local Use Value | \$42,626.46                    | \$0.00                    | \$0.00                  | \$0.00                   | \$42,626.46      |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | :FS1000000         | C000984 | 2923654 | FS1004000, Information Security              | 0   |           | 0         | Default Local Use Value | \$154,019.41                   | \$0.00                    | \$0.00                  | \$0.00                   | \$154,019.41     |

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                  | WFO | WFO Title | Local Use | Local Use Code          | Beginning Uncoasted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|--|-----|-----------|-----------|-------------------------|---------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924328 | KA2202010, Experimental Operations and Sup     | 0   |           | 0         | Default Local Use Value | \$359,003.14                    | \$0.00                    | \$0.00                  | \$0.00                   | \$359,003.14    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KB000000C          | C001009 | 2923749 | KB0301042, Theory, Nuclear Data, National La   | 0   |           | 0         | Default Local Use Value | \$1,210,156.27                  | \$0.00                    | \$0.00                  | \$0.00                   | \$1,210,156.27  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924319 | KA2102090, Other Facilities                    | 0   |           | 0         | Default Local Use Value | \$97,189.23                     | \$0.00                    | \$0.00                  | \$0.00                   | \$97,189.23     |
| 500       | 089-X-0222      | -2005              | 25400        | Operation :        | KA000000C          | C002852 | 2923681 | KA1102812, Proton Facilities - Chng in Inventc | 0   |           | 0         | Default Local Use Value | \$13,915.26                     | \$0.00                    | \$0.00                  | \$0.00                   | \$13,915.26     |
| 500       | 089-X-0222      | -2005              | 25400        | Operation :        | KA000000C          | C002852 | 2923680 | KA1102811, Proton Facilities - Chng in Inventc | 0   |           | 0         | Default Local Use Value | \$437,633.18                    | \$0.00                    | \$0.00                  | \$0.00                   | \$437,633.18    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | FS1000000          | C000984 | 2923656 | FS1006000, Personnel Security                  | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$542,000.00              | \$0.00                  | \$542,000.00             | \$542,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KJ0000000          | C001018 | 2924474 | KJ0402010, Computer Sciences - Research        | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$750,000.00              | \$0.00                  | \$750,000.00             | \$750,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KC000000C          | C002853 | 2924300 | KC0304030, Solar Photochemistry                | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$3,336,000.00            | \$1,362,000.00          | \$4,698,000.00           | \$4,698,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KA000000C          | C002852 | 2924346 | KA2301020, National Laboratories               | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$912,000.00              | \$303,000.00            | \$1,215,000.00           | \$1,215,000.00  |
| 500       | 089-X-0222      | -2018              | 32001        | Constructio        | 39KG0100C          | C003087 | 2924481 | 39KG01000PRN17SC73000 Core Facility Revit:     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$28,229,000.00           | \$0.00                  | \$28,229,000.00          | \$28,229,000.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KB000000C          | C001009 | 2923721 | KB0101022, Medium Energy, Other National L     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,402,000.00            | \$887,000.00            | \$2,289,000.00           | \$2,289,000.00  |
| 500       | 089-X-0222      | -2018              | 31003        | Other Equip        | KB000000C          | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper    | 0   |           | 485396    | CHEQU                   | \$0.00                          | \$632,000.00              | \$192,000.00            | \$824,000.00             | \$824,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KP000000C          | C001024 | 2924462 | KP1703040, Climate Model Development and       | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$654,000.00              | \$738,000.00            | \$1,392,000.00           | \$1,392,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KP000000C          | C001024 | 2924200 | KP1601010, Foundational Genomics Research      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,237,000.00            | \$0.00                  | \$1,237,000.00           | \$1,237,000.00  |
| 500       | 089-X-0222      | -2012              | 25400        | Operation :        | KA000000C          | C002852 | 2924034 | KA1502021, Advanced Technology Research, ,     | 0   |           | 0         | Default Local Use Value | \$2,499.75                      | -\$2,499.75               | \$0.00                  | -\$2,499.75              | \$0.00          |
| 500       | 089-X-0222      | -2014              | 25400        | Operation :        | KB000000C          | C001009 | 2923741 | KB0281011, Nuclear Physics - RHIC              | 0   |           | 0         | Default Local Use Value | \$82,974.96                     | \$0.00                    | \$0.00                  | \$0.00                   | \$82,974.96     |
| 500       | 089-X-0222      | -2017              | 31001        | Major Item         | KA000000C          | C002852 | 2924320 | KA2103011, MIE                                 | 0   |           | 485486    | CHEQU                   | \$8,500,000.00                  | \$0.00                    | \$0.00                  | \$0.00                   | \$8,500,000.00  |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KP000000C          | C001024 | 2924462 | KP1703040, Climate Model Development and       | 0   |           | 0         | Default Local Use Value | \$416,750.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$416,750.00    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | FS1000000          | C000984 | 2923655 | FS1005000, Cyber Security                      | 0   |           | 0         | Default Local Use Value | \$523,499.81                    | \$0.00                    | \$0.00                  | \$0.00                   | \$523,499.81    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KL0000000          | C001021 | 2924408 | KL1003000, Visiting Faculty Program            | 0   |           | 0         | Default Local Use Value | \$120,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$120,000.00    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2924192 | KC0207010, Energy Frontier Research Centers    | 0   |           | 0         | Default Local Use Value | \$3,332,000.00                  | \$0.00                    | \$0.00                  | \$0.00                   | \$3,332,000.00  |
| 500       | 089-X-0222      | -2014              | 25400        | Operation :        | KP000000C          | C001024 | 2924200 | KP1601010, Foundational Genomics Research      | 0   |           | 0         | Default Local Use Value | \$180,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$180,000.00    |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KC000000C          | C002853 | 2924305 | KC0406020, Accelerator and Detector Researc    | 0   |           | 0         | Default Local Use Value | \$60,138.03                     | \$0.00                    | \$0.00                  | \$0.00                   | \$60,138.03     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924371 | KA2501032, National Laboratories               | 0   |           | 0         | Default Local Use Value | \$461,630.30                    | \$0.00                    | \$0.00                  | \$0.00                   | \$461,630.30    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KP000000C          | C001024 | 2924216 | KP1703020, Earth System Modeling               | 0   |           | 0         | Default Local Use Value | \$358,481.36                    | \$0.00                    | \$0.00                  | \$0.00                   | \$358,481.36    |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KA000000C          | C002852 | 2924357 | KA2401021, Scientific Discovery through Adv    | 0   |           | 0         | Default Local Use Value | \$13,031.12                     | \$0.00                    | \$0.00                  | \$0.00                   | \$13,031.12     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924325 | KA2201020, National Laboratories               | 0   |           | 0         | Default Local Use Value | \$1,768,961.30                  | \$0.00                    | \$0.00                  | \$0.00                   | \$1,768,961.30  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc    | 0   |           | 0         | Default Local Use Value | \$27,412,536.40                 | \$0.00                    | \$0.00                  | \$0.00                   | \$27,412,536.40 |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KP000000C          | C001024 | 2924216 | KP1703020, Earth System Modeling               | 0   |           | 0         | Default Local Use Value | \$90,001.99                     | \$0.00                    | \$0.00                  | \$0.00                   | \$90,001.99     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | FS1000000          | C000984 | 2923657 | FS1007000, Material Control and Accountabili   | 0   |           | 0         | Default Local Use Value | \$466,015.26                    | \$0.00                    | \$0.00                  | \$0.00                   | \$466,015.26    |
| 500       | 089-X-0222      | -2015              | 25400        | Operation :        | KC000000C          | C002853 | 2924232 | KC0401030, National Synchrotron Light Sourc    | 0   |           | 0         | Default Local Use Value | \$783.45                        | -\$660.73                 | \$0.00                  | -\$660.73                | \$122.72        |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924382 | KA2602010, Accelerator Operations and Supp     | 0   |           | 0         | Default Local Use Value | \$328,880.99                    | \$0.00                    | \$0.00                  | \$0.00                   | \$328,880.99    |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KC000000C          | C002853 | 2924192 | KC0207010, Energy Frontier Research Centers    | 0   |           | 0         | Default Local Use Value | \$308,303.74                    | \$0.00                    | \$0.00                  | \$0.00                   | \$308,303.74    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KL0000000          | C001021 | 2924407 | KL1002000, Community College Internship Pr     | 0   |           | 0         | Default Local Use Value | \$95,172.95                     | \$0.00                    | \$0.00                  | \$0.00                   | \$95,172.95     |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KA000000C          | C002852 | 2924357 | KA2401021, Scientific Discovery through Adv    | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$86,000.00               | \$28,000.00             | \$114,000.00             | \$114,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KC000000C          | C002853 | 2924472 | KC0201070, X-Ray Scattering                    | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,086,000.00            | \$1,044,000.00          | \$2,130,000.00           | \$2,130,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KJ0000000          | C001018 | 2924476 | KJ0403010, Computational Partnerships - Sci    | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$100,000.00              | \$0.00                  | \$100,000.00             | \$100,000.00    |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KP000000C          | C001024 | 2924200 | KP1601010, Foundational Genomics Research      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$521,900.65              | \$0.00                  | \$521,900.65             | \$521,900.65    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KP000000C          | C001024 | 2924204 | KP1601050, Bioenergy Research Centers          | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$685,000.00              | \$0.00                  | \$685,000.00             | \$685,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | FS1000000          | C000984 | 2923652 | FS1001000, Protective Forces                   | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$6,256,000.00            | \$0.00                  | \$6,256,000.00           | \$6,256,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KC000000C          | C002853 | 2924506 | KC0202031, Theoretical Condensed Matter Pf     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,251,000.00            | \$511,000.00            | \$1,762,000.00           | \$1,762,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation :        | KA000000C          | C002852 | 2924314 | KA2101030, University Service Accounts         | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$0.00                    | \$35,000.00             | \$35,000.00              | \$35,000.00     |
| 500       | 089-X-0222      | -2007              | 25400        | Operation :        | KP000000C          | C001024 | 2924200 | KP1601010, Foundational Genomics Research      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$0.00                    | \$39,292.45             | \$39,292.45              | \$39,292.45     |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KL0000000          | C001021 | 2924414 | KL1500000, Outreach                            | 0   |           | 0         | Default Local Use Value | \$2,262.77                      | \$0.00                    | \$0.00                  | \$0.00                   | \$2,262.77      |
| 500       | 089-X-0222      | -2016              | 25400        | Operation :        | KA000000C          | C002852 | 2924314 | KA2101030, University Service Accounts         | 0   |           | 0         | Default Local Use Value | \$85,265.00                     | \$0.00                    | \$0.00                  | \$0.00                   | \$85,265.00     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2924405 | KC0201060, Neutron and X-Ray Scatering         | 0   |           | 0         | Default Local Use Value | \$330,037.56                    | \$0.00                    | \$0.00                  | \$0.00                   | \$330,037.56    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2923809 | KC0302030, Heavy Element Chemistry             | 0   |           | 0         | Default Local Use Value | \$89,285.79                     | \$0.00                    | \$0.00                  | \$0.00                   | \$89,285.79     |
| 500       | 089-X-0222      | -2014              | 25400        | Operation :        | KA000000C          | C002852 | 2923680 | KA1102811, Proton Facilities - Chng in Inventc | 0   |           | 0         | Default Local Use Value | \$11,981.92                     | \$0.00                    | \$0.00                  | \$0.00                   | \$11,981.92     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2924294 | KC0202040, Mechanical Behavior and Radiati     | 0   |           | 0         | Default Local Use Value | \$10,411.59                     | \$0.00                    | \$0.00                  | \$0.00                   | \$10,411.59     |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KA000000C          | C002852 | 2924369 | KA2501022, Muon Accelerators                   | 0   |           | 0         | Default Local Use Value | \$250,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$250,000.00    |
| 500       | 089-X-0222      | -2017              | 32001        | Constructio        | 39KA0000C          | C002786 | 2924263 | 39KA00000PRN11SC40000, Long Baseline Nei       | 0   |           | 0         | Default Local Use Value | \$1,650,069.21                  | \$0.00                    | \$0.00                  | \$0.00                   | \$1,650,069.21  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation :        | KC000000C          | C002853 | 2923769 | KC0201010, Structure Of Materials              | 0   |           | 0         | Default Local Use Value | \$1,878,640.89                  | \$0.00                    | \$0.00                  | \$0.00                   | \$1,878,640.89  |

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
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| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                | WFO     | WFO Title | Local Use | Local Use Code          | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|--|---------|-----------|-----------|-------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KP000000C          | C001024 | 2924200 | KP1601010, Foundational Genomics Research    | 0       |           | 0         | Default Local Use Value | \$2,125,100.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,125,100.00  |
| 500       | 089-X-0222      | -2014              | 25400        | Operation          | KB000000C          | C001009 | 2923728 | KB0181012, Nuclear Physics - BNL-Tandem      | 0       |           | 0         | Default Local Use Value | \$34,228.17                    | \$0.00                    | \$0.00                  | \$0.00                   | \$34,228.17     |
| 500       | 089-X-0222      | -2017              | 32003        | Accelerator        | KB000000C          | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper  | 0       |           | 485395    | CHAIP                   | \$2,369,000.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,369,000.00  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KA000000C          | C002852 | 2924355 | KA2401012, National Laboratories             | 0       |           | 0         | Default Local Use Value | \$1,183,684.51                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,183,684.51  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924421 | KC0406030, Long Term Surveillance and Main   | 0       |           | 0         | Default Local Use Value | \$1,650,263.63                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,650,263.63  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924447 | KC0213010, Computational Materials Science:  | 0       |           | 0         | Default Local Use Value | \$2,875,000.00                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,875,000.00  |
| 500       | 089-X-0222      | -2005              | 25400        | Operation          | KB000000C          | C001009 | 2923741 | KB0281011, Nuclear Physics - RHIC            | 0       |           | 0         | Default Local Use Value | \$201,097.43                   | \$0.00                    | \$0.00                  | \$0.00                   | \$201,097.43    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2923807 | KC0302010, Chemical Energy                   | 0       |           | 0         | Default Local Use Value | \$1,600,623.43                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,600,623.43  |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924242 | KC0403020, Center for Functional Nanomater   | 0       |           | 0         | Default Local Use Value | \$11,363,791.95                | \$0.00                    | \$0.00                  | \$0.00                   | \$11,363,791.95 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | FS1000000          | C000984 | 2923658 | FS1009000, Program Management                | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$686,000.00              | \$0.00                  | \$686,000.00             | \$686,000.00    |
| 500       | 089-X-0222      | -2018              | 32001        | Constructio        | 39KA00000C         | C002786 | 2924263 | 39KA00000PRN115C40000, Long Baseline Net     | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$3,100,000.00            | \$800,000.00            | \$3,900,000.00           | \$3,900,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924242 | KC0403020, Center for Functional Nanomater   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$12,818,000.00           | \$3,658,000.00          | \$16,476,000.00          | \$16,476,000.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KB000000C          | C001009 | 2923755 | KB0401022, Low Energy, Other National Labo   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$490,000.00              | \$349,000.00            | \$839,000.00             | \$839,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KJ0000000          | C001018 | 2924516 | KJ0403040, Computational Partnerships - Coll | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$120,000.00              | \$0.00                  | \$120,000.00             | \$120,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924319 | KA2102090, Other Facilities                  | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$187,000.00              | \$118,000.00            | \$305,000.00             | \$305,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KL0000000          | C001021 | 2924408 | KL1003000, Visiting Faculty Program          | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$240,000.00              | \$0.00                  | \$240,000.00             | \$240,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc  | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$64,154,000.00           | \$29,303,000.00         | \$93,457,000.00          | \$93,457,000.00 |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KL0000000          | C001021 | 2924406 | KL1001000, Science Undergraduate Laborator   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$1,246,000.00            | \$0.00                  | \$1,246,000.00           | \$1,246,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KB000000C          | C001009 | 2923733 | KB0201021, Heavy Ion, RHIC Research          | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$3,592,000.00            | \$2,430,000.00          | \$6,022,000.00           | \$6,022,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2923769 | KC0201010, Structure Of Materials            | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$2,064,000.00            | \$1,342,000.00          | \$3,406,000.00           | \$3,406,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924320 | KA2103011, MIE                               | 0       |           | 485492    | CHOPEMIE61BL            | \$0.00                         | \$931,622.15              | \$0.00                  | \$931,622.15             | \$931,622.15    |
| 500       | 089-X-0222      | -2018              | 32003        | Accelerator        | KA000000C          | C002852 | 2924496 | KA2602020, Accelerator Test Facility ATF Ope | 0       |           | 485395    | CHAIP                   | \$0.00                         | \$325,000.00              | \$0.00                  | \$325,000.00             | \$325,000.00    |
| 500       | 089-X-0222      | -2018              | 31001        | Major Item         | KA000000C          | C002852 | 2924320 | KA2103011, MIE                               | 0       |           | 485496    | CHEQUMIE61BL            | \$0.00                         | \$1,864,377.85            | \$1,389,000.00          | \$3,253,377.85           | \$3,253,377.85  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | FS1000000          | C000984 | 2923657 | FS1007000, Material Control and Accountabili | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$652,000.00              | \$0.00                  | \$652,000.00             | \$652,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924325 | KA2201020, National Laboratories             | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$3,863,000.00            | \$1,285,000.00          | \$5,148,000.00           | \$5,148,000.00  |
| 500       | 089-X-0222      | -2018              | 32003        | Accelerator        | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc  | 0       |           | 485395    | CHAIP                   | \$0.00                         | \$2,200,000.00            | \$0.00                  | \$2,200,000.00           | \$2,200,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KB000000C          | C001009 | 2924156 | KB0201052, Heavy Ion Accelerator R&D Natl I  | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$0.00                    | \$84,000.00             | \$84,000.00              | \$84,000.00     |
| 500       | 089-X-0222      | -2013              | 32001        | Constructio        | 39KG00000C         | C002739 | 2924227 | 39KG01000PRN10SC72000, Renovate Science      | 0       |           | 0         | Default Local Use Value | \$127.20                       | -\$127.20                 | \$0.00                  | -\$127.20                | \$0.00          |
| 500       | 089-X-0222      | -2017              | 31003        | Other Equip        | KC000000C          | C002853 | 2924242 | KC0403020, Center for Functional Nanomater   | 0       |           | 485396    | CHEQU                   | \$600,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$600,000.00    |
| 500       | 089-X-0222      | -2009              | 25400        | Operation          | KB000000C          | C001009 | 2923741 | KB0281011, Nuclear Physics - RHIC            | 0       |           | 0         | Default Local Use Value | \$267,025.04                   | \$0.00                    | \$0.00                  | \$0.00                   | \$267,025.04    |
| 500       | 089-X-0222      | -2016              | 31003        | Other Equip        | FS1000000          | C000984 | 2923655 | FS1005000, Cyber Security                    | 0       |           | 485396    | CHEQU                   | \$508,268.60                   | \$0.00                    | \$0.00                  | \$0.00                   | \$508,268.60    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2923774 | KC0202020, DO NOT USE!!! Experimental Con    | 0       |           | 0         | Default Local Use Value | \$477,041.88                   | \$0.00                    | \$0.00                  | \$0.00                   | \$477,041.88    |
| 500       | 089-X-0222      | -2016              | 32003        | Accelerator        | KB000000C          | C001009 | 2923736 | KB0202011, Heavy Ion, RHIC Accelerator Oper  | 0       |           | 485395    | CHAIP                   | \$138,941.27                   | \$0.00                    | \$0.00                  | \$0.00                   | \$138,941.27    |
| 500       | 089-X-0222      | -2016              | 31001        | Major Item         | KA000000C          | C002852 | 2924320 | KA2103011, MIE                               | 0       |           | 485486    | CHEQUMIE30YD            | \$4,378,975.89                 | \$0.00                    | \$0.00                  | \$0.00                   | \$4,378,975.89  |
| 500       | 089-X-0222      | -2016              | 31003        | Other Equip        | KB000000C          | C001009 | 2923737 | KB0202012, Heavy Ion, RHIC Experimental Sup  | 0       |           | 485396    | CHEQU                   | \$494,483.56                   | \$0.00                    | \$0.00                  | \$0.00                   | \$494,483.56    |
| 500       | 089-X-0222      | -2014              | 25400        | Operation          | KC000000C          | C002853 | 2923794 | KC0281013, BNL-NSLS                          | 0       |           | 0         | Default Local Use Value | \$165,193.55                   | \$0.00                    | \$0.00                  | \$0.00                   | \$165,193.55    |
| 500       | 089-X-0222      | -2016              | 31001        | Major Item         | KC000000C          | C002853 | 2924289 | KC0405060, NSLS-II Experimental Tools NEXT   | 0       |           | 485469    | CHEQUMIE21XG            | \$698,538.41                   | \$0.00                    | -\$698,538.41           | -\$698,538.41            | \$0.00          |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KB000000C          | C001009 | 2923737 | KB0202012, Heavy Ion, RHIC Experimental Sup  | 0       |           | 0         | Default Local Use Value | \$8,542,881.26                 | \$2,318,685.09            | \$0.00                  | \$2,318,685.09           | \$10,861,566.35 |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KC000000C          | C002853 | 2924472 | KC0201070, X-Ray Scattering                  | 0       |           | 0         | Default Local Use Value | \$595,500.79                   | \$0.00                    | \$0.00                  | \$0.00                   | \$595,500.79    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KJ0000000          | C001018 | 2924137 | KJ0404000, Next Generation Networking for S  | 0       |           | 0         | Default Local Use Value | \$730,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$730,000.00    |
| 500       | 089-X-0222      | -2017              | 25400        | Operation          | KJ0000000          | C001018 | 2924476 | KJ0403010, Computational Partnerships - SciC | 0       |           | 0         | Default Local Use Value | \$820,586.31                   | \$0.00                    | \$0.00                  | \$0.00                   | \$820,586.31    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2923807 | KC0302010, Chemical Energy                   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$1,985,000.00            | \$1,311,000.00          | \$3,296,000.00           | \$3,296,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924320 | KA2103011, MIE                               | 0       |           | 485493    | CHOPEMIE61BM            | \$0.00                         | \$7,189,000.00            | \$1,688,000.00          | \$8,877,000.00           | \$8,877,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924294 | KC0202040, Mechanical Behavior and Radiati   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$128,000.00              | \$52,000.00             | \$180,000.00             | \$180,000.00    |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KC000000C          | C002853 | 2924460 | KC0301050, Condensed Phase & Interfacial M   | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$256,000.00              | \$104,000.00            | \$360,000.00             | \$360,000.00    |
| 500       | 089-X-0222      | -2018              | 31003        | Other Equip        | KB000000C          | C001009 | 2923737 | KB0202012, Heavy Ion, RHIC Experimental Sup  | 0       |           | 485396    | CHEQU                   | \$0.00                         | \$1,199,799.00            | \$201.00                | \$1,200,000.00           | \$1,200,000.00  |
| 500       | 089-X-0222      | -2018              | 25400        | Operation          | KA000000C          | C002852 | 2924355 | KA2401012, National Laboratories             | 0       |           | 0         | Default Local Use Value | \$0.00                         | \$2,289,000.00            | \$761,000.00            | \$3,050,000.00           | \$3,050,000.00  |
| 500       | 089-X-0222      | -2018              | 31003        | Other Equip        | KC000000C          | C002853 | 2924233 | KC0401040, National Synchrotron Light Sourc  | 0       |           | 485396    | CHEQU                   | \$0.00                         | \$4,800,000.00            | \$0.00                  | \$4,800,000.00           | \$4,800,000.00  |
| 500       | 089-X-0222      | -2018              | 31003        | Other Equip        | KC000000C          | C002853 | 2924242 | KC0403020, Center for Functional Nanomater   | 0       |           | 485396    | CHEQU                   | \$0.00                         | \$0.00                    | \$2,500,000.00          | \$2,500,000.00           | \$2,500,000.00  |
| 510       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Devel    | 4861004 | CHAGR841  | 0         | Default Local Use Value | \$14,968.90                    | \$0.00                    | \$0.00                  | \$0.00                   | \$14,968.90     |
| 510       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Devel    | 4861036 | CHAGR840  | 0         | Default Local Use Value | \$10,223.77                    | \$0.00                    | -\$187.52               | -\$187.52                | \$10,036.25     |
| 510       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Devel    | 4860934 | CHAGR873  | 0         | Default Local Use Value | \$5,519.07                     | -\$169.32                 | \$0.00                  | -\$169.32                | \$5,349.75      |

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| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                              | WFO     | WFO Title   | Local Use | Local Use Code          | Beginning Uncoasted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|--|---------|-------------|-----------|-------------------------|---------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 510       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Develc | 4861014 | CHAGR840 0  |           | Default Local Use Value | \$23,840.15                     | \$0.00                    | \$0.00                  | \$0.00                   | \$23,840.15     |
| 510       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Develc | 4861004 | CHAGR841 0  |           | Default Local Use Value | \$0.00                          | \$44,930.10               | \$0.00                  | \$44,930.10              | \$44,930.10     |
| 510       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Develc | 4861014 | CHAGR840 0  |           | Default Local Use Value | \$0.00                          | \$128,958.68              | \$34,006.13             | \$162,964.81             | \$162,964.81    |
| 510       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Develc | 4860747 | CHAGR871 0  |           | Default Local Use Value | \$94,245.21                     | \$0.00                    | \$0.00                  | \$0.00                   | \$94,245.21     |
| 510       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600199 | 456165021, Cooperative Research And Develc | 4861091 | CHAGRRIKI 0 |           | Default Local Use Value | \$0.00                          | \$368,693.08              | \$1,781.90              | \$370,474.98             | \$370,474.98    |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860936 | CHAGR872 0  |           | Default Local Use Value | \$8,423.32                      | \$0.00                    | \$0.00                  | \$0.00                   | \$8,423.32      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860977 | CHAGR873 0  |           | Default Local Use Value | \$5,748.27                      | \$0.00                    | \$0.00                  | \$0.00                   | \$5,748.27      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861050 | CHAGR841 0  |           | Default Local Use Value | \$44,174.91                     | -\$0.07                   | \$0.00                  | -\$0.07                  | \$44,174.84     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861043 | CHAGR841 0  |           | Default Local Use Value | \$110,437.28                    | -\$0.16                   | \$0.00                  | -\$0.16                  | \$110,437.12    |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861009 | CHAGR841 0  |           | Default Local Use Value | \$7,036.36                      | \$0.00                    | \$0.00                  | \$0.00                   | \$7,036.36      |
| 511       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860831 | CHAGR872 0  |           | Default Local Use Value | \$4,332.74                      | \$0.00                    | \$0.00                  | \$0.00                   | \$4,332.74      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861047 | CHAGR841 0  |           | Default Local Use Value | \$552.18                        | \$0.00                    | \$0.00                  | \$0.00                   | \$552.18        |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861033 | CHAGR840 0  |           | Default Local Use Value | \$2,962.41                      | \$0.00                    | \$0.00                  | \$0.00                   | \$2,962.41      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861021 | CHAGR840 0  |           | Default Local Use Value | \$11,323.36                     | \$0.00                    | \$0.00                  | \$0.00                   | \$11,323.36     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861070 | CHAGR842 0  |           | Default Local Use Value | \$0.00                          | \$13,348.43               | -\$0.12                 | \$13,348.31              | \$13,348.31     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861046 | CHAGR841 0  |           | Default Local Use Value | \$0.00                          | \$33,750.00               | \$0.00                  | \$33,750.00              | \$33,750.00     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861080 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$91,831.68               | -\$10,618.00            | \$81,213.68              | \$81,213.68     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861093 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$45,000.00               | \$0.00                  | \$45,000.00              | \$45,000.00     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861092 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$0.00                    | \$10,000.00             | \$10,000.00              | \$10,000.00     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4860975 | CHAGR873 0  |           | Default Local Use Value | \$5,204.80                      | -\$265.74                 | \$0.00                  | -\$265.74                | \$4,939.06      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861045 | CHAGR840 0  |           | Default Local Use Value | \$1,270.32                      | \$0.00                    | \$0.00                  | \$0.00                   | \$1,270.32      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860928 | CHAGR873 0  |           | Default Local Use Value | \$95,137.44                     | \$0.00                    | \$0.00                  | \$0.00                   | \$95,137.44     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861026 | CHAGR840 0  |           | Default Local Use Value | \$2,069.60                      | -\$2,243.82               | \$0.00                  | -\$2,243.82              | -\$174.22       |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4801577 | CHAGR878 0  |           | Default Local Use Value | \$54,993.37                     | \$0.00                    | \$0.00                  | \$0.00                   | \$54,993.37     |
| 511       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860931 | CHAGR872 0  |           | Default Local Use Value | \$5,157.98                      | \$0.00                    | -\$51.02                | -\$51.02                 | \$5,106.96      |
| 511       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860880 | CHAGR872 0  |           | Default Local Use Value | \$3,397.00                      | \$0.00                    | \$0.00                  | \$0.00                   | \$3,397.00      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4861001 | CHAGR841 0  |           | Default Local Use Value | \$868.67                        | -\$868.67                 | \$0.00                  | -\$868.67                | \$0.00          |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861067 | CHAGR842 0  |           | Default Local Use Value | \$0.00                          | \$37,574.13               | \$0.00                  | \$37,574.13              | \$37,574.13     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861058 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$45,000.00               | -\$32.83                | \$44,967.17              | \$44,967.17     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861062 | CHAGR842 0  |           | Default Local Use Value | \$0.00                          | \$43,689.32               | \$0.00                  | \$43,689.32              | \$43,689.32     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861023 | CHAGR840 0  |           | Default Local Use Value | \$0.00                          | \$131,460.88              | \$0.00                  | \$131,460.88             | \$131,460.88    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861102 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$0.00                    | \$12,160.19             | \$12,160.19              | \$12,160.19     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860971 | CHAGR873 0  |           | Default Local Use Value | \$51,738.93                     | \$0.00                    | \$0.00                  | \$0.00                   | \$51,738.93     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4861015 | CHAGR840 0  |           | Default Local Use Value | \$1,726,233.20                  | \$0.00                    | \$0.00                  | \$0.00                   | \$1,726,233.20  |
| 511       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860686 | CHAGR878 0  |           | Default Local Use Value | \$19,755.50                     | \$0.00                    | \$0.00                  | \$0.00                   | \$19,755.50     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861046 | CHAGR841 0  |           | Default Local Use Value | \$11,250.00                     | \$0.00                    | \$0.00                  | \$0.00                   | \$11,250.00     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861030 | CHAGR840 0  |           | Default Local Use Value | \$1,696.16                      | \$0.00                    | \$0.00                  | \$0.00                   | \$1,696.16      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861044 | CHAGR841 0  |           | Default Local Use Value | \$0.03                          | -\$0.03                   | \$0.00                  | -\$0.03                  | \$0.00          |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861029 | CHAGR840 0  |           | Default Local Use Value | \$1,721.51                      | \$0.00                    | \$0.00                  | \$0.00                   | \$1,721.51      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860989 | CHAGR840 0  |           | Default Local Use Value | \$1,582.55                      | -\$53.90                  | \$0.00                  | -\$53.90                 | \$1,528.65      |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861059 | CHAGR842 0  |           | Default Local Use Value | \$0.00                          | \$6,000.00                | \$0.00                  | \$6,000.00               | \$6,000.00      |
| 511       | 089-X-0222      | -2014              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860871 | CHAGR872 0  |           | Default Local Use Value | \$209,237.49                    | \$0.00                    | \$0.00                  | \$0.00                   | \$209,237.49    |
| 511       | 089-X-0222      | -2015              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860880 | CHAGR872 0  |           | Default Local Use Value | \$8,195.24                      | \$0.00                    | \$0.00                  | \$0.00                   | \$8,195.24      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860986 | CHAGR840 0  |           | Default Local Use Value | \$288.29                        | -\$288.29                 | \$0.00                  | -\$288.29                | \$0.00          |
| 511       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860871 | CHAGR872 0  |           | Default Local Use Value | \$13,578.50                     | \$0.00                    | \$0.00                  | \$0.00                   | \$13,578.50     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4861040 | CHAGR841 0  |           | Default Local Use Value | \$22,694.53                     | -\$21,844.66              | \$0.00                  | -\$21,844.66             | \$849.87        |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861031 | CHAGR840 0  |           | Default Local Use Value | \$20,000.00                     | -\$2,495.26               | \$0.00                  | -\$2,495.26              | \$17,504.74     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4861032 | CHAGR841 0  |           | Default Local Use Value | \$25,541.67                     | \$0.00                    | \$0.00                  | \$0.00                   | \$25,541.67     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign              | 4860978 | CHAGR873 0  |           | Default Local Use Value | \$12,052.71                     | -\$12,052.71              | \$0.00                  | -\$12,052.71             | \$0.00          |
| 511       | 089-X-0222      | -2014              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4860840 | CHAGR872 0  |           | Default Local Use Value | \$0.96                          | -\$0.96                   | \$0.00                  | -\$0.96                  | \$0.00          |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861022 | CHAGR841 0  |           | Default Local Use Value | \$2,641,348.88                  | \$0.00                    | \$0.00                  | \$0.00                   | \$2,641,348.88  |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic             | 4861089 | CHAGR843 0  |           | Default Local Use Value | \$0.00                          | \$29,320.39               | \$0.00                  | \$29,320.39              | \$29,320.39     |

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                  | WFO     | WFO Title  | Local Use | Local Use Code          | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|--------------------------------|---------|------------|-----------|-------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861084 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$18,221.00               | -\$138.13               | \$18,082.87              | \$18,082.87     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4861032 | CHAGR841 0 |           | Default Local Use Value | \$0.00                         | \$116,211.71              | \$0.00                  | \$116,211.71             | \$116,211.71    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861087 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$2,500.00                | \$0.00                  | \$2,500.00               | \$2,500.00      |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861022 | CHAGR841 0 |           | Default Local Use Value | \$0.00                         | \$6,616,332.20            | \$0.00                  | \$6,616,332.20           | \$6,616,332.20  |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861068 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$5,521.86                | \$28,820.43             | \$34,342.29              | \$34,342.29     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861052 | CHAGR841 0 |           | Default Local Use Value | \$0.00                         | \$267,797.72              | \$79,526.46             | \$347,324.18             | \$347,324.18    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860977 | CHAGR873 0 |           | Default Local Use Value | \$0.00                         | \$139,805.83              | \$0.00                  | \$139,805.83             | \$139,805.83    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861071 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$15,000.00               | \$0.00                  | \$15,000.00              | \$15,000.00     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861060 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$66,262.39               | \$0.00                  | \$66,262.39              | \$66,262.39     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861056 | CHAGR840 0 |           | Default Local Use Value | \$0.00                         | \$293,689.32              | -\$7,281.55             | \$286,407.77             | \$286,407.77    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861099 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$0.00                    | \$45,918.80             | \$45,918.80              | \$45,918.80     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861101 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$0.00                    | \$43,689.32             | \$43,689.32              | \$43,689.32     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4860813 | CHAGR872 0 |           | Default Local Use Value | \$77,323.17                    | \$0.00                    | \$0.00                  | \$0.00                   | \$77,323.17     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860949 | CHAGR873 0 |           | Default Local Use Value | \$10,245.93                    | \$0.00                    | \$0.00                  | \$0.00                   | \$10,245.93     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861033 | CHAGR840 0 |           | Default Local Use Value | \$0.00                         | \$37,346.38               | \$0.00                  | \$37,346.38              | \$37,346.38     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860969 | CHAGR873 0 |           | Default Local Use Value | \$0.00                         | \$72,107.82               | \$0.00                  | \$72,107.82              | \$72,107.82     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861030 | CHAGR840 0 |           | Default Local Use Value | \$0.00                         | \$22,455.01               | \$0.00                  | \$22,455.01              | \$22,455.01     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4801577 | CHAGR872 0 |           | Default Local Use Value | \$0.00                         | \$50,485.44               | \$0.00                  | \$50,485.44              | \$50,485.44     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4861086 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$22,957.93               | \$0.00                  | \$22,957.93              | \$22,957.93     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861027 | CHAGR840 0 |           | Default Local Use Value | \$22,087.45                    | -\$0.03                   | \$0.00                  | -\$0.03                  | \$22,087.42     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4860874 | CHAGR872 0 |           | Default Local Use Value | \$38,881.13                    | \$0.00                    | \$0.00                  | \$0.00                   | \$38,881.13     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860748 | CHAGR871 0 |           | Default Local Use Value | \$658.25                       | \$0.00                    | \$0.00                  | \$0.00                   | \$658.25        |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860946 | CHAGR873 0 |           | Default Local Use Value | \$75,847.99                    | \$0.00                    | \$0.00                  | \$0.00                   | \$75,847.99     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861023 | CHAGR840 0 |           | Default Local Use Value | \$70,749.31                    | \$0.00                    | \$0.00                  | \$0.00                   | \$70,749.31     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861020 | CHAGR840 0 |           | Default Local Use Value | \$0.00                         | \$203,823.89              | \$20,603.02             | \$224,426.91             | \$224,426.91    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4861065 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$194,174.76              | \$0.00                  | \$194,174.76             | \$194,174.76    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861079 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$103,310.70              | \$0.00                  | \$103,310.70             | \$103,310.70    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861066 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$241,447.30              | \$45,915.92             | \$287,363.22             | \$287,363.22    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861072 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$5,000.00                | \$0.00                  | \$5,000.00               | \$5,000.00      |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861053 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$126,258.00              | \$0.00                  | \$126,258.00             | \$126,258.00    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860936 | CHAGR872 0 |           | Default Local Use Value | \$0.00                         | \$4,434.07                | \$1,209.25              | \$5,643.32               | \$5,643.32      |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861096 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$91,831.73               | \$0.00                  | \$91,831.73              | \$91,831.73     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861088 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$229,579.42              | \$0.00                  | \$229,579.42             | \$229,579.42    |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861053 | CHAGR842 0 |           | Default Local Use Value | \$25,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$25,000.00     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861042 | CHAGR840 0 |           | Default Local Use Value | \$17.49                        | -\$17.49                  | \$0.00                  | -\$17.49                 | \$0.00          |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861052 | CHAGR841 0 |           | Default Local Use Value | \$2,999,587.54                 | \$0.00                    | \$0.00                  | \$0.00                   | \$2,999,587.54  |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860982 | CHAGR840 0 |           | Default Local Use Value | \$36,317.18                    | \$0.00                    | \$0.00                  | \$0.00                   | \$36,317.18     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861056 | CHAGR840 0 |           | Default Local Use Value | \$29,126.21                    | \$0.00                    | \$0.00                  | \$0.00                   | \$29,126.21     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861021 | CHAGR840 0 |           | Default Local Use Value | \$0.00                         | \$5,495.81                | \$90.98                 | \$5,586.79               | \$5,586.79      |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860350 | CHAGR873 0 |           | Default Local Use Value | \$0.00                         | \$10,000.00               | -\$10,000.00            | \$0.00                   | \$0.00          |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861063 | CHAGR842 0 |           | Default Local Use Value | \$0.00                         | \$22,087.46               | \$0.00                  | \$22,087.46              | \$22,087.46     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4861076 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$530,763.76              | \$281,044.43            | \$811,808.19             | \$811,808.19    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860686 | CHAGR878 0 |           | Default Local Use Value | \$0.00                         | \$264,550.00              | \$0.00                  | \$264,550.00             | \$264,550.00    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861098 | CHAGR843 0 |           | Default Local Use Value | \$0.00                         | \$0.00                    | \$34,951.46             | \$34,951.46              | \$34,951.46     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860969 | CHAGR873 0 |           | Default Local Use Value | \$47,519.68                    | \$0.00                    | \$0.00                  | \$0.00                   | \$47,519.68     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4860984 | CHAGR840 0 |           | Default Local Use Value | \$828.80                       | \$0.00                    | \$0.00                  | \$0.00                   | \$828.80        |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861028 | CHAGR841 0 |           | Default Local Use Value | \$336.15                       | -\$336.15                 | \$0.00                  | -\$336.15                | \$0.00          |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861017 | CHAGR841 0 |           | Default Local Use Value | \$3,315.04                     | \$0.00                    | \$0.00                  | \$0.00                   | \$3,315.04      |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861020 | CHAGR840 0 |           | Default Local Use Value | \$34,126.87                    | \$0.00                    | \$0.00                  | \$0.00                   | \$34,126.87     |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign  | 4860800 | CHAGR871 0 |           | Default Local Use Value | \$683.29                       | \$0.00                    | \$0.00                  | \$0.00                   | \$683.29        |
| 511       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4861034 | CHAGR840 0 |           | Default Local Use Value | \$0.10                         | -\$0.10                   | \$0.00                  | -\$0.10                  | \$0.00          |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic | 4860971 | CHAGR873 0 |           | Default Local Use Value | \$0.00                         | \$8,509.23                | \$0.00                  | \$8,509.23               | \$8,509.23      |

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| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                 | WFO     | WFO Title  | Local Use | Local Use Code | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |                |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|---|---------|------------|-----------|----------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|----------------|
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic                | 4861075 | CHAGR843 0 |           |                | Default Local Use Value        | \$0.00                    | \$29,770.61             | \$0.00                   | \$29,770.61     | \$29,770.61    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign                 | 4861074 | CHAGR842 0 |           |                | Default Local Use Value        | \$0.00                    | \$45,946.78             | -\$0.01                  | \$45,946.77     | \$45,946.77    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign                 | 4860984 | CHAGR840 0 |           |                | Default Local Use Value        | \$0.00                    | \$79,580.54             | \$0.00                   | \$79,580.54     | \$79,580.54    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic                | 4861090 | CHAGR843 0 |           |                | Default Local Use Value        | \$0.00                    | \$115,860.00            | \$0.00                   | \$115,860.00    | \$115,860.00   |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic                | 4861009 | CHAGR841 0 |           |                | Default Local Use Value        | \$0.00                    | \$914.32                | \$4,151.57               | \$5,065.89      | \$5,065.89     |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600147 | 456160032, Industry - Foreign                 | 4861061 | CHAGR842 0 |           |                | Default Local Use Value        | \$0.00                    | \$33,131.18             | \$0.00                   | \$33,131.18     | \$33,131.18    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic                | 4861064 | CHAGR842 0 |           |                | Default Local Use Value        | \$0.00                    | \$44,174.92             | \$0.00                   | \$44,174.92     | \$44,174.92    |
| 511       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600146 | 456160031, Industry - Domestic                | 4861077 | CHAGR843 0 |           |                | Default Local Use Value        | \$0.00                    | \$6,886.61              | \$0.00                   | \$6,886.61      | \$6,886.61     |
| 517       | 089-X-0222      | -2016              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860826 | CHAGR872 0 |           |                | Default Local Use Value        | \$23,465.53               | \$0.00                  | \$0.00                   | \$0.00          | \$23,465.53    |
| 517       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860823 | CHAGR872 0 |           |                | Default Local Use Value        | \$0.00                    | \$33,980.58             | \$58,252.43              | \$92,233.01     | \$92,233.01    |
| 517       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860834 | CHAGR872 0 |           |                | Default Local Use Value        | \$30,195.40               | \$0.00                  | \$0.00                   | \$0.00          | \$30,195.40    |
| 517       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860834 | CHAGR872 0 |           |                | Default Local Use Value        | \$0.00                    | \$29,126.21             | \$0.00                   | \$29,126.21     | \$29,126.21    |
| 517       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4861010 | CHAGR873 0 |           |                | Default Local Use Value        | \$0.00                    | \$2,351,456.31          | \$0.00                   | \$2,351,456.31  | \$2,351,456.31 |
| 517       | 089-X-0222      | -2018              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860826 | CHAGR872 0 |           |                | Default Local Use Value        | \$0.00                    | \$1,192,402.92          | \$0.00                   | \$1,192,402.92  | \$1,192,402.92 |
| 517       | 089-X-0222      | -2017              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4861010 | CHAGR873 0 |           |                | Default Local Use Value        | \$76,566.43               | \$0.00                  | \$0.00                   | \$0.00          | \$76,566.43    |
| 517       | 089-X-0222      | -2015              | 25400        | Operation          | :4.56E+08          | C003005 | 6600207 | 456167SC0, Office of Science SC               | 4860823 | CHAGR872 0 |           |                | Default Local Use Value        | \$36,038.18               | \$0.00                  | \$0.00                   | \$0.00          | \$36,038.18    |
| 679       | 089-15/16-022   | 2015               | 25400        | Operation          | :WA220000          | C001104 | 2822390 | WA2230100, Other Related Expenses - Contra    |         |            | 302064    |                | Climate REDI / CEM FY15 632(a) | \$40,000.00               | \$0.00                  | \$0.00                   | \$0.00          | \$40,000.00    |
| 681       | 089-14/15-022   | 2014               | 25400        | Operation          | :WA220000          | C001104 | 2822390 | WA2230100, Other Related Expenses - Contra    |         |            | 0         |                | Default Local Use Value        | \$39,548.18               | \$0.00                  | \$0.00                   | \$0.00          | \$39,548.18    |
| 692       | 089-14/15-022   | 2014               | 25400        | Operation          | :WN000000          | C001118 | 1721222 | WN0219060, State and Local Governments an     | 4860825 | CHAGR872 0 |           |                | Default Local Use Value        | \$17,728.79               | \$0.00                  | \$0.00                   | \$0.00          | \$17,728.79    |
| 900       | 089-X-0240      | -2015              | 25400        | Operation          | :DP800000          | C002982 | 2222989 | DP8000000, Counterterrorism and Counterpr     |         |            | 0         |                | Default Local Use Value        | \$49,412.56               | \$0.00                  | \$0.00                   | \$0.00          | \$49,412.56    |
| 900       | 089-X-0240      | -2015              | 25400        | Operation          | :DP400000          | C000925 | 2221775 | DP4015011 - Radiological Assistance Program   |         |            | 0         |                | Default Local Use Value        | \$0.01                    | \$0.00                  | \$0.00                   | \$0.00          | \$0.01         |
| 900       | 089-X-0240      | -2014              | 25400        | Operation          | :DP120400          | C000912 | 2220743 | DP1204010, Secondary Assessment Technolo      |         |            | 0         |                | Default Local Use Value        | \$836.82                  | \$0.00                  | \$0.00                   | \$0.00          | \$836.82       |
| 900       | 089-X-0240      | -2014              | 25400        | Operation          | :DP400000          | C000925 | 2222480 | DP4011093, Nuclear Counterterrorism           |         |            | 0         |                | Default Local Use Value        | \$2,057.91                | \$0.00                  | \$0.00                   | \$0.00          | \$2,057.91     |
| 900       | 089-X-0240      | -2017              | 25400        | Operation          | :DP090900          | C002955 | 2223112 | DP0909010, Nuclear Criticality Safety Program |         |            | 0         |                | Default Local Use Value        | \$15,478.29               | \$0.00                  | \$0.00                   | \$0.00          | \$15,478.29    |
| 900       | 089-X-0240      | -2018              | 25400        | Operation          | :DP090900          | C002955 | 2223112 | DP0909010, Nuclear Criticality Safety Program |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$262,000.00            | \$0.00                   | \$262,000.00    | \$262,000.00   |
| 1050      | 089-X-0243      | -2017              | 25400        | Operation          | :HQ000000          | C002425 | 3184701 | HQ1001000, Worker Advocacy                    |         |            | 0         |                | Default Local Use Value        | \$13,140.76               | \$0.00                  | \$0.00                   | \$0.00          | \$13,140.76    |
| 1050      | 089-X-0243      | -2018              | 25400        | Operation          | :HQ000000          | C002425 | 3184701 | HQ1001000, Worker Advocacy                    |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$35,000.00             | \$0.00                   | \$35,000.00     | \$35,000.00    |
| 1060      | 089-X-0243      | -2016              | 25400        | Operation          | :GD600000          | C002970 | 3203764 | GD6020400, CI Training                        |         |            | 0         |                | Default Local Use Value        | \$11,412.93               | \$0.00                  | \$0.00                   | \$0.00          | \$11,412.93    |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203780 | GD6050200, Technical Services                 |         |            | 0         |                | Default Local Use Value        | \$126,271.10              | \$0.00                  | \$0.00                   | \$0.00          | \$126,271.10   |
| 1060      | 089-X-0243      | -2018              | 25400        | Operation          | :GD600000          | C002970 | 3203764 | GD6020400, CI Training                        |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$5,070.00              | \$0.00                   | \$5,070.00      | \$5,070.00     |
| 1060      | 089-X-0243      | -2018              | 25400        | Operation          | :GD600000          | C002970 | 3203769 | GD6020900, Office of The SCIO                 |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$550,830.00            | \$80,000.00              | \$630,830.00    | \$630,830.00   |
| 1060      | 089-X-0243      | -2015              | 25400        | Operation          | :GD250000          | C002546 | 3203755 | GD2540250, CI Training                        |         |            | 0         |                | Default Local Use Value        | \$38,022.43               | \$0.00                  | \$0.00                   | \$0.00          | \$38,022.43    |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203769 | GD6020900, Office of The SCIO                 |         |            | 0         |                | Default Local Use Value        | \$172,424.87              | \$0.00                  | \$0.00                   | \$0.00          | \$172,424.87   |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203779 | GD6050100, CYBER & OPERATIONS                 |         |            | 0         |                | Default Local Use Value        | \$113,058.15              | \$0.00                  | \$0.00                   | \$0.00          | \$113,058.15   |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203764 | GD6020400, CI Training                        |         |            | 0         |                | Default Local Use Value        | \$25,765.00               | \$0.00                  | \$0.00                   | \$0.00          | \$25,765.00    |
| 1060      | 089-X-0243      | -2018              | 25400        | Operation          | :GD600000          | C002970 | 3203763 | GD6020300, Investigations                     |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$1,042,650.00          | \$135,050.00             | \$1,177,700.00  | \$1,177,700.00 |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203763 | GD6020300, Investigations                     |         |            | 0         |                | Default Local Use Value        | \$348,672.66              | \$0.00                  | \$64,000.00              | \$64,000.00     | \$412,672.66   |
| 1060      | 089-X-0243      | -2018              | 25400        | Operation          | :GD600000          | C002970 | 3203761 | GD6020100, Analysis                           |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$243,050.00            | \$31,480.00              | \$274,530.00    | \$274,530.00   |
| 1060      | 089-X-0243      | -2017              | 25400        | Operation          | :GD600000          | C002970 | 3203761 | GD6020100, Analysis                           |         |            | 0         |                | Default Local Use Value        | \$99,987.56               | \$0.00                  | \$0.00                   | \$0.00          | \$99,987.56    |
| 1060      | 089-X-0243      | -2018              | 25400        | Operation          | :GD600000          | C002970 | 3203780 | GD6050200, Technical Services                 |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$282,694.00            | \$38,719.00              | \$321,413.00    | \$321,413.00   |
| 1079      | 089-16/17-024   | 2016               | 25400        | Operation          | :CS000000          | C000892 | 1713352 | CS7000000, Integrated Joint Cybersecurity Co  |         |            | 0         |                | Default Local Use Value        | \$24,072.62               | \$0.00                  | \$0.00                   | \$0.00          | \$24,072.62    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | :NN400000          | C001056 | 2222728 | NN4011020, Nuclear Noncompliance Verificat    |         |            | 0         |                | Default Local Use Value        | \$1,486.29                | \$0.00                  | \$0.00                   | \$0.00          | \$1,486.29     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | :DN200000          | C003038 | 2223154 | DN2006000, USHPRR                             |         |            | 0         |                | Default Local Use Value        | \$283,177.06              | \$0.00                  | \$0.00                   | \$0.00          | \$283,177.06   |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | :NN400000          | C001056 | 2222718 | NN4009020, DO NOT USE!!! Safeguards Enga      |         |            | 0         |                | Default Local Use Value        | \$1,520.12                | \$0.00                  | \$0.00                   | \$0.00          | \$1,520.12     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | :DN400000          | C003042 | 2223106 | DN4004040, Policy Studies and Support         |         |            | 0         |                | Default Local Use Value        | \$26.66                   | \$0.00                  | \$0.00                   | \$0.00          | \$26.66        |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | :NN500000          | C001058 | 2222810 | NN5002040, US Costs for Non Russia Non-Nev    |         |            | 0         |                | Default Local Use Value        | \$69,665.61               | \$0.00                  | \$0.00                   | \$0.00          | \$69,665.61    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | :NN500000          | C001058 | 2221243 | NN5005011, U.S. Costs for Russia Newly Inde   |         |            | 0         |                | Default Local Use Value        | \$54,437.77               | \$0.00                  | \$0.00                   | \$0.00          | \$54,437.77    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | :CT000000          | C003007 | 2223020 | CT8401000, Radiological Assistance Program    |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$3,125,996.00          | \$527,004.00             | \$3,653,000.00  | \$3,653,000.00 |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | :DN400000          | C003042 | 2223103 | DN4004010, Global Regimes                     |         |            | 0         |                | Default Local Use Value        | \$0.00                    | \$45,000.00             | \$0.00                   | \$45,000.00     | \$45,000.00    |
| 1551      | 089-X-0309      | -2013              | 25400        | Operation          | :NN500000          | C001058 | 2222811 | NN5003040, US Costs for Non Russia Non-Nev    |         |            | 0         |                | Default Local Use Value        | \$2,868.79                | \$0.00                  | \$0.00                   | \$0.00          | \$2,868.79     |
| 1551      | 089-X-0309      | -2016              | 25400        | Operation          | :DN100100          | C003034 | 2223053 | DN1001021, U.S. Costs for Russia Newly Inde   |         |            | 0         |                | Default Local Use Value        | \$596,721.35              | \$0.00                  | \$0.00                   | \$0.00          | \$596,721.35   |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | :CT000000          | C003007 | 2223023 | CT8404010, Evaluation, Exercise, Readiness, a |         |            | 0         |                | Default Local Use Value        | \$4,995.57                | \$0.00                  | \$0.00                   | \$0.00          | \$4,995.57     |

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| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                 | WFO | WFO Title | Local Use | Local Use Code          | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|---|-----|-----------|-----------|-------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN500000           | C001058 | 2222881 | NN5070040, US Costs for Non Russia Non-Nev    | 0   |           | 0         | Default Local Use Value | \$15,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$15,000.00     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN400000           | C003042 | 2223103 | DN4004010, Global Regimes                     | 0   |           | 0         | Default Local Use Value | \$25,181.87                    | \$0.00                    | \$0.00                  | \$0.00                   | \$25,181.87     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN400000           | C003042 | 2223094 | DN4001010, Safeguards Policy                  | 0   |           | 0         | Default Local Use Value | \$295,963.81                   | \$0.00                    | \$0.00                  | \$0.00                   | \$295,963.81    |
| 1551      | 089-X-0309      | -2014              | 25400        | Operation          | NN400000           | C001056 | 2222722 | NN4010021, US Costs for Russia Newly Inde     | 0   |           | 0         | Default Local Use Value | \$327.66                       | \$0.00                    | \$0.00                  | \$0.00                   | \$327.66        |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN930000           | C002936 | 2222890 | NN9301000, Domestic Nuclear and Radiologic    | 0   |           | 0         | Default Local Use Value | \$23,901.61                    | \$0.00                    | \$0.00                  | \$0.00                   | \$23,901.61     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | CT000000           | C003007 | 2223014 | CT8101000, Nuclear Incident Policy and Coop   | 0   |           | 0         | Default Local Use Value | \$230,790.44                   | \$0.00                    | \$0.00                  | \$0.00                   | \$230,790.44    |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN400000           | C003042 | 2223095 | DN4001020, Safeguards Engagement INSEP        | 0   |           | 0         | Default Local Use Value | \$953,147.65                   | \$0.00                    | \$0.00                  | \$0.00                   | \$953,147.65    |
| 1551      | 089-X-0309      | -2014              | 25400        | Operation          | NN500000           | C001058 | 2221235 | NN5002020, In-Country Costs for Russia Newl   | 0   |           | 0         | Default Local Use Value | \$570,714.02                   | -\$22,388.44              | \$22,388.44             | \$0.00                   | \$570,714.02    |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN400000           | C003042 | 2223096 | DN4001030, Safeguards Technology Developr     | 0   |           | 0         | Default Local Use Value | \$155,393.01                   | \$0.00                    | \$0.00                  | \$0.00                   | \$155,393.01    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN400000           | C003042 | 2223095 | DN4001020, Safeguards Engagement INSEP        | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$452,500.00              | \$0.00                  | \$452,500.00             | \$452,500.00    |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN100100           | C003034 | 2223049 | DN1001011, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$140,000.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$140,000.00    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN500000           | C001058 | 2221234 | NN5002010, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$426,518.22                   | \$0.00                    | \$0.00                  | \$0.00                   | \$426,518.22    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN500000           | C001058 | 2221235 | NN5002020, In-Country Costs for Russia Newl   | 0   |           | 0         | Default Local Use Value | \$1,298,068.16                 | -\$18,058.69              | \$18,058.69             | \$0.00                   | \$1,298,068.16  |
| 1551      | 089-X-0309      | -2014              | 25400        | Operation          | NN500000           | C001058 | 2221241 | NN5004020, In-Country Costs for Russia Newl   | 0   |           | 0         | Default Local Use Value | \$22,388.44                    | -\$22,388.44              | \$0.00                  | -\$22,388.44             | \$0.00          |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | CT000000           | C003007 | 2223025 | CT8405010, Technology Integration TI          | 0   |           | 0         | Default Local Use Value | \$319.64                       | \$0.00                    | \$0.00                  | \$0.00                   | \$319.64        |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN100300           | C003036 | 2223063 | DN1003011, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$341,187.02                   | \$0.00                    | \$0.00                  | \$0.00                   | \$341,187.02    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN400000           | C001056 | 2222719 | NN4009030, Safeguards Technology Developr     | 0   |           | 0         | Default Local Use Value | \$2,773.36                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,773.36      |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN200000           | C003038 | 2223076 | DN2001000, Proliferation Detection            | 0   |           | 0         | Default Local Use Value | \$480,711.69                   | \$0.00                    | \$0.00                  | \$0.00                   | \$480,711.69    |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN300100           | C003039 | 2223079 | DN3001010, Highly Enriched Uranium HEU R      | 0   |           | 0         | Default Local Use Value | \$10,135.62                    | \$0.00                    | \$0.00                  | \$0.00                   | \$10,135.62     |
| 1551      | 089-X-0309      | -2014              | 25400        | Operation          | NN500000           | C001058 | 2222881 | NN5070040, US Costs for Non Russia Non-Nev    | 0   |           | 0         | Default Local Use Value | \$27,382.94                    | \$0.00                    | \$0.00                  | \$0.00                   | \$27,382.94     |
| 1551      | 089-X-0309      | -2016              | 25400        | Operation          | DN400000           | C003042 | 2223101 | DN4003010, Warhead Dismantlement and Fis      | 0   |           | 0         | Default Local Use Value | \$2,912.16                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,912.16      |
| 1551      | 089-X-0309      | -2016              | 25400        | Operation          | DN100100           | C003034 | 2223049 | DN1001011, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$72,500.55                    | \$0.00                    | \$0.00                  | \$0.00                   | \$72,500.55     |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN200000           | C001052 | 2221132 | NN2001000, Nonproliferation Detection         | 0   |           | 0         | Default Local Use Value | \$26,300.17                    | \$0.00                    | \$0.00                  | \$0.00                   | \$26,300.17     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | CT000000           | C003007 | 2223020 | CT8401000, Radiological Assistance Program    | 0   |           | 0         | Default Local Use Value | \$1,086,494.82                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,086,494.82  |
| 1551      | 089-X-0309      | -2014              | 25400        | Operation          | NN500000           | C001058 | 2221231 | NN5001010, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$72.68                        | \$0.00                    | \$0.00                  | \$0.00                   | \$72.68         |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN100300           | C003036 | 2223063 | DN1003011, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$200,000.00              | \$900,000.00            | \$1,100,000.00           | \$1,100,000.00  |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN400000           | C003042 | 2223094 | DN4001010, Safeguards Policy                  | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$625,075.00              | \$47,750.00             | \$672,825.00             | \$672,825.00    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN201200           | C003120 | 2223182 | DN2012010, U.S. High Performance Research     | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$252,656.00              | \$147,344.00            | \$400,000.00             | \$400,000.00    |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN300100           | C003039 | 2223080 | DN3001020, Molybdenum-99 Mo-99                | 0   |           | 0         | Default Local Use Value | \$7,011.34                     | \$0.00                    | \$0.00                  | \$0.00                   | \$7,011.34      |
| 1551      | 089-X-0309      | -2013              | 25400        | Operation          | NN500000           | C001058 | 2221240 | NN5004010, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$116,033.19                   | -\$116,798.56             | \$0.00                  | -\$116,798.56            | -\$765.37       |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN400000           | C001056 | 2222717 | NN4009010, Safeguards Policy and Human Re     | 0   |           | 0         | Default Local Use Value | \$30,331.23                    | \$0.00                    | \$0.00                  | \$0.00                   | \$30,331.23     |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN500000           | C001058 | 2221240 | NN5004010, U.S. Costs for Russia Newly Inde   | 0   |           | 0         | Default Local Use Value | \$33,515.04                    | -\$18,029.44              | \$0.00                  | -\$18,029.44             | \$15,485.60     |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN400000           | C003042 | 2223102 | DN4003020, Nuclear Noncompliance Verificat    | 0   |           | 0         | Default Local Use Value | \$32,240.31                    | \$0.00                    | \$0.00                  | \$0.00                   | \$32,240.31     |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN500000           | C001058 | 2221241 | NN5004020, In-Country Costs for Russia Newl   | 0   |           | 0         | Default Local Use Value | \$29.25                        | -\$29.25                  | \$0.00                  | -\$29.25                 | \$0.00          |
| 1551      | 089-X-0309      | -2017              | 25400        | Operation          | DN100500           | C003088 | 2223152 | DN1005010, Domestic Radiological Security     | 0   |           | 0         | Default Local Use Value | \$40,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$40,000.00     |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN400000           | C003042 | 2223102 | DN4003020, Nuclear Noncompliance Verificat    | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$635,500.00              | \$50,000.00             | \$685,500.00             | \$685,500.00    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN201000           | C003118 | 2223180 | DN2010000, Proliferation Detection R&D        | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$478,965.29              | \$296,034.71            | \$775,000.00             | \$775,000.00    |
| 1551      | 089-X-0309      | -2016              | 25400        | Operation          | DN400000           | C003042 | 2223105 | DN4004030, Multilateral Supplier Policy       | 0   |           | 0         | Default Local Use Value | \$127,037.86                   | \$0.00                    | \$0.00                  | \$0.00                   | \$127,037.86    |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN910000           | C002938 | 2222883 | NN9100000, Highly Enriched Uranium HEU R      | 0   |           | 0         | Default Local Use Value | \$952.05                       | \$0.00                    | \$0.00                  | \$0.00                   | \$952.05        |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN400000           | C001056 | 2222732 | NN4012030, Multilateral Supplier Policy       | 0   |           | 0         | Default Local Use Value | \$830.02                       | \$0.00                    | \$0.00                  | \$0.00                   | \$830.02        |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN400000           | C001056 | 2222733 | NN4012040, Policy Studies and Support         | 0   |           | 0         | Default Local Use Value | \$52,839.60                    | \$0.00                    | \$0.00                  | \$0.00                   | \$52,839.60     |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN100500           | C003088 | 2223152 | DN1005010, Domestic Radiological Security     | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$200,000.00              | \$0.00                  | \$200,000.00             | \$200,000.00    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | DN400000           | C003042 | 2223096 | DN4001030, Safeguards Technology Developr     | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$1,070,000.00            | \$0.00                  | \$1,070,000.00           | \$1,070,000.00  |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | CT000000           | C003007 | 2223023 | CT8404010, Evaluation, Exercise, Readiness, a | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$109,486.00              | \$0.00                  | \$109,486.00             | \$109,486.00    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | CT000000           | C003007 | 2223025 | CT8405010, Technology Integration TI          | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$12,774.00               | \$2,226.00              | \$15,000.00              | \$15,000.00     |
| 1551      | 089-X-0309      | -2013              | 25400        | Operation          | NN400000           | C001056 | 2222721 | NN4010010, International Nonproliferation Ex  | 0   |           | 0         | Default Local Use Value | \$348.29                       | \$0.00                    | \$0.00                  | \$0.00                   | \$348.29        |
| 1551      | 089-X-0309      | -2015              | 25400        | Operation          | NN400000           | C001056 | 2222730 | NN4012010, Global Regimes                     | 0   |           | 0         | Default Local Use Value | \$2,345.59                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,345.59      |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | CT000000           | C003007 | 2223144 | CT8000000, NA-80 CTCP                         | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$120,000.00              | \$0.00                  | \$120,000.00             | \$120,000.00    |
| 1551      | 089-X-0309      | -2018              | 25400        | Operation          | CT000000           | C003007 | 2223014 | CT8101000, Nuclear Incident Policy and Coop   | 0   |           | 0         | Default Local Use Value | \$0.00                         | \$50,000.00               | \$0.00                  | \$50,000.00              | \$50,000.00     |
| 1557      | 089-X-0309      | -2012              | 25400        | Operation          | NN500000           | C001058 | 2222290 | NN5010000, International Contributions UK     | 0   |           | 0         | Default Local Use Value | \$46,587.47                    | \$0.00                    | \$0.00                  | \$0.00                   | \$46,587.47     |
| 1650      | 089-X-0313 - F  | 2010               | 25400        | Operation          | PS000000           | C001075 | 2221514 | PS0202132, Advisory and Assistance, Diversity | 0   |           | 0         | Default Local Use Value | \$38,795.51                    | \$0.00                    | \$0.00                  | \$0.00                   | \$38,795.51     |
| 1689      | 089-14/15-031   | 2014               | 25400        | Operation          | PS000000           | C001075 | 2222565 | PS0202200, A&A, Counterterrorism              | 0   |           | 0         | Default Local Use Value | \$2,021.13                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,021.13      |



BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL     | Program | Program Title                                   | WFO | WFO Title | Local Use | Local Use Code          | Beginning Uncoasted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|---------|---------|---|-----|-----------|-----------|-------------------------|---------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 1751      | 089-X-0315      | -2015              | 25400        | Operation          | EZ5000000          | C002226 | 1110981 | EZ5012300 - BRNL-0030 Soil and Water Reme       | 0   |           | 0         | Default Local Use Value | \$47.62                         | \$0.00                    | \$0.00                  | \$0.00                   | \$47.62         |
| 1751      | 089-X-0315      | -2013              | 25400        | Operation          | EZ5000000          | C002226 | 1110981 | EZ5012300 - BRNL-0030 Soil and Water Reme       | 0   |           | 0         | Default Local Use Value | \$510,649.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$510,649.00    |
| 2300      | 089-X-4180      | -2016              | 25400        | Operation          | ST0000000          | C001087 | 2924306 | ST6001031, Production                           | 0   |           | 0         | Default Local Use Value | \$428,187.59                    | \$0.00                    | \$0.00                  | \$0.00                   | \$428,187.59    |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2924306 | ST6001031, Production                           | 0   |           | 0         | Default Local Use Value | \$2,160,000.00                  | \$191,000.00              | \$0.00                  | \$191,000.00             | \$2,351,000.00  |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2924281 | ST6001034, Facility Upgrades                    | 0   |           | 0         | Default Local Use Value | \$592,572.04                    | \$0.00                    | \$0.00                  | \$0.00                   | \$592,572.04    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2924424 | ST5001040, Actinium-225 Technology Researc      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$421,000.00              | \$0.00                  | \$421,000.00             | \$421,000.00    |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2720715 | ST5001030, Other National Lab Research          | 0   |           | 0         | Default Local Use Value | \$408,904.78                    | \$220,000.00              | \$0.00                  | \$220,000.00             | \$628,904.78    |
| 2300      | 089-X-4180      | -2014              | 25400        | Operation          | ST0000000          | C001087 | 2924424 | ST5001040, Actinium-225 Technology Researc      | 0   |           | 0         | Default Local Use Value | \$46,351.44                     | \$0.00                    | \$0.00                  | \$0.00                   | \$46,351.44     |
| 2300      | 089-X-4180      | -2016              | 25400        | Operation          | ST0000000          | C001087 | 2720716 | ST5002000, University Research                  | 0   |           | 0         | Default Local Use Value | \$1,292.10                      | \$0.00                    | \$0.00                  | \$0.00                   | \$1,292.10      |
| 2300      | 089-X-4180      | -2016              | 25400        | Operation          | ST0000000          | C001087 | 2924424 | ST5001040, Actinium-225 Technology Researc      | 0   |           | 0         | Default Local Use Value | \$100,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$100,000.00    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2924280 | ST6001032, Hot Cell and Other National Lab F    | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,873,000.00            | \$0.00                  | \$1,873,000.00           | \$1,873,000.00  |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2924424 | ST5001040, Actinium-225 Technology Researc      | 0   |           | 0         | Default Local Use Value | \$100,000.00                    | \$200,000.00              | \$0.00                  | \$200,000.00             | \$300,000.00    |
| 2300      | 089-X-4180      | -2014              | 25400        | Operation          | ST0000000          | C001087 | 2720714 | ST5001020, Brookhaven Linear Isotope Produ      | 0   |           | 0         | Default Local Use Value | \$229,180.08                    | \$0.00                    | \$0.00                  | \$0.00                   | \$229,180.08    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2924281 | ST6001034, Facility Upgrades                    | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$834,000.00              | \$0.00                  | \$834,000.00             | \$834,000.00    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2720718 | ST6001020, Brookhaven Linear Isotope Produ      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$809,000.00              | \$0.00                  | \$809,000.00             | \$809,000.00    |
| 2300      | 089-X-4180      | -2014              | 32003        | Accelerator        | ST0000000          | C001087 | 2924281 | ST6001034, Facility Upgrades                    | 0   |           | 485395    | CHAIP                   | \$123,010.46                    | -\$1,283.45               | \$0.00                  | -\$1,283.45              | \$121,727.01    |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2720718 | ST6001020, Brookhaven Linear Isotope Produ      | 0   |           | 0         | Default Local Use Value | \$241,530.03                    | \$160,000.00              | \$0.00                  | \$160,000.00             | \$401,530.03    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2924306 | ST6001031, Production                           | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$3,711,000.00            | \$0.00                  | \$3,711,000.00           | \$3,711,000.00  |
| 2300      | 089-X-4180      | -2018              | 32003        | Accelerator        | ST0000000          | C001087 | 2924281 | ST6001034, Facility Upgrades                    | 0   |           | 485395    | CHAIP                   | \$0.00                          | \$0.00                    | \$1,310,000.00          | \$1,310,000.00           | \$1,310,000.00  |
| 2300      | 089-X-4180      | -2016              | 25400        | Operation          | ST0000000          | C001087 | 2924282 | ST6001036, Technical Services                   | 0   |           | 0         | Default Local Use Value | \$19,083.00                     | \$0.00                    | \$0.00                  | \$0.00                   | \$19,083.00     |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2720714 | ST5001020, Brookhaven Linear Isotope Produ      | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$289,000.00              | \$0.00                  | \$289,000.00             | \$289,000.00    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2720715 | ST5001030, Other National Lab Research          | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$334,000.00              | \$0.00                  | \$334,000.00             | \$334,000.00    |
| 2300      | 089-X-4180      | -2017              | 25400        | Operation          | ST0000000          | C001087 | 2924280 | ST6001032, Hot Cell and Other National Lab F    | 0   |           | 0         | Default Local Use Value | \$658,053.20                    | \$650,000.00              | \$0.00                  | \$650,000.00             | \$1,308,053.20  |
| 2300      | 089-X-4180      | -2015              | 32003        | Accelerator        | ST0000000          | C001087 | 2924281 | ST6001034, Facility Upgrades                    | 0   |           | 485395    | CHAIP                   | \$152,000.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$152,000.00    |
| 2300      | 089-X-4180      | -2018              | 25400        | Operation          | ST0000000          | C001087 | 2720716 | ST5002000, University Research                  | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$35,000.00               | \$0.00                  | \$35,000.00              | \$35,000.00     |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1200000          | C002799 | 3123792 | TE1201000, Smart Grid                           | 0   |           | 0         | Default Local Use Value | \$2,262.82                      | \$0.00                    | \$0.00                  | \$0.00                   | \$2,262.82      |
| 5300      | 089-X-0318      | -2013              | 25400        | Operation          | TE1100000          | C002798 | 3123789 | TE1101000, Transmission Reliability & Renew     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$1,037.16                | \$0.00                  | \$1,037.16               | \$1,037.16      |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TF0000000          | C002802 | 3123796 | TF0000000, Transmission Permitting and Tech     | 0   |           | 0         | Default Local Use Value | \$121.66                        | \$0.00                    | \$0.00                  | \$0.00                   | \$121.66        |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1300000          | C002800 | 3123815 | TE1305000, Virtual Energy Sector Forensics Ar   | 0   |           | 0         | Default Local Use Value | \$2,255.84                      | \$0.00                    | \$0.00                  | \$0.00                   | \$2,255.84      |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1200000          | C002799 | 3123809 | TE1203000, Advance Distribution Managemer       | 0   |           | 0         | Default Local Use Value | \$6,380.00                      | \$0.00                    | \$0.00                  | \$0.00                   | \$6,380.00      |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1100000          | C002798 | 3123816 | TE1104010, Monitoring and Real-Time Analys      | 0   |           | 0         | Default Local Use Value | \$44,125.59                     | \$0.00                    | \$0.00                  | \$0.00                   | \$44,125.59     |
| 5300      | 089-X-0318      | -2018              | 25400        | Operation          | TE1100000          | C002798 | 3123789 | TE1101000, Transmission Reliability & Renew     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$18,700.84               | \$0.00                  | \$18,700.84              | \$18,700.84     |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1200000          | C002799 | 3123811 | TE1205000, Resilient Electric Distribution Grid | 0   |           | 0         | Default Local Use Value | \$66,862.68                     | \$0.00                    | \$0.00                  | \$0.00                   | \$66,862.68     |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1200000          | C002799 | 3123812 | TE1206000, Advanced Secure Low-cost Senso       | 0   |           | 0         | Default Local Use Value | \$22.70                         | \$0.00                    | \$0.00                  | \$0.00                   | \$22.70         |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1100000          | C002798 | 3123802 | TE1104000, Energy Systems Predictive Capabi     | 0   |           | 0         | Default Local Use Value | \$200,456.62                    | \$0.00                    | \$0.00                  | \$0.00                   | \$200,456.62    |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1400000          | C002801 | 3123795 | TE1400000, Energy Storage                       | 0   |           | 0         | Default Local Use Value | \$260.97                        | \$0.00                    | \$0.00                  | \$0.00                   | \$260.97        |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1100000          | C002798 | 3123785 | TE1103000, Advanced Modeling Grid Researc       | 0   |           | 0         | Default Local Use Value | \$4,349.10                      | \$0.00                    | \$0.00                  | \$0.00                   | \$4,349.10      |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1300000          | C002800 | 3123804 | TE1302000, Cyber for Energy Security OPS        | 0   |           | 0         | Default Local Use Value | \$200.26                        | \$0.00                    | \$0.00                  | \$0.00                   | \$200.26        |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1300000          | C002800 | 3123803 | TE1301000, Cyber for Energy Security R&D        | 0   |           | 0         | Default Local Use Value | \$28,066.30                     | \$0.00                    | \$0.00                  | \$0.00                   | \$28,066.30     |
| 5300      | 089-X-0318      | -2018              | 25400        | Operation          | TE1100000          | C002798 | 3123785 | TE1103000, Advanced Modeling Grid Researc       | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$116,666.00              | \$583,334.00            | \$700,000.00             | \$700,000.00    |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1200000          | C002799 | 3123810 | TE1204000, Dynamic Controls & Communicat        | 0   |           | 0         | Default Local Use Value | \$205.91                        | \$0.00                    | \$0.00                  | \$0.00                   | \$205.91        |
| 5300      | 089-X-0318      | -2017              | 25400        | Operation          | TE1100000          | C002798 | 3123785 | TE1103000, Advanced Modeling Grid Researc       | 0   |           | 0         | Default Local Use Value | \$517,786.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$517,786.00    |
| 5300      | 089-X-0318      | -2018              | 25400        | Operation          | TE1200000          | C002799 | 3123811 | TE1205000, Resilient Electric Distribution Grid | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$85,000.00               | \$0.00                  | \$85,000.00              | \$85,000.00     |
| 5300      | 089-X-0318      | -2016              | 25400        | Operation          | TE1100000          | C002798 | 3123789 | TE1101000, Transmission Reliability & Renew     | 0   |           | 0         | Default Local Use Value | \$136.88                        | \$0.00                    | \$0.00                  | \$0.00                   | \$136.88        |
| 5300      | 089-X-0318      | -2015              | 25400        | Operation          | TE1100000          | C002798 | 3123789 | TE1101000, Transmission Reliability & Renew     | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$55,262.00               | \$0.00                  | \$55,262.00              | \$55,262.00     |
| 5350      | 089-X-0319      | -2017              | 25400        | Operation          | AF5800000          | C000822 | 2720667 | AF5810000, Advanced Fuels Research, Develo      | 0   |           | 0         | Default Local Use Value | \$116,766.49                    | \$0.00                    | \$0.00                  | \$0.00                   | \$116,766.49    |
| 5350      | 089-X-0319      | -2013              | 25400        | Operation          | NT0100000          | C002769 | 2720775 | NT0104000, Reactor Materials                    | 0   |           | 0         | Default Local Use Value | \$15,703.42                     | \$0.00                    | \$0.00                  | \$0.00                   | \$15,703.42     |
| 5350      | 089-X-0319      | -2018              | 25400        | Operation          | RC0500000          | C003095 | 2720978 | RC0504000, Program Assessment and Coordir       | 0   |           | 0         | Default Local Use Value | \$0.00                          | \$86,037.00               | \$0.00                  | \$86,037.00              | \$86,037.00     |
| 5350      | 089-X-0319      | -2017              | 25400        | Operation          | RC0400000          | C002775 | 2720918 | RC0424000, ARC International Collaborations     | 0   |           | 0         | Default Local Use Value | \$13,562.95                     | \$0.00                    | \$0.00                  | \$0.00                   | \$13,562.95     |
| 5350      | 089-X-0319      | -2016              | 25400        | Operation          | AF0400000          | C002768 | 2720880 | AF0440000, Program Support                      | 0   |           | 0         | Default Local Use Value | \$2,801.06                      | \$0.00                    | \$0.00                  | \$0.00                   | \$2,801.06      |
| 5350      | 089-X-0319      | -2017              | 25400        | Operation          | AF5800000          | C000822 | 2720965 | AF5861010, Spent Fuel and Waste Disposition     | 0   |           | 0         | Default Local Use Value | \$88,979.28                     | \$0.00                    | \$0.00                  | \$0.00                   | \$88,979.28     |
| 5350      | 089-X-0319      | -2017              | 25400        | Operation          | AF5800000          | C000822 | 2720874 | AF5832020, Systems Analysis                     | 0   |           | 0         | Default Local Use Value | \$253,116.01                    | \$0.00                    | \$0.00                  | \$0.00                   | \$253,116.01    |

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title            | Legacy B&R Control | OCL     | Program  | Program Title | WFO      | WFO Title | Local Use | Local Use Code               | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|-------------------------------|--------------------|---------|--|---------------|----------|-----------|-----------|------------------------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
| 5350      | 089-X-0319      | -2017              | 25400        | Operation : AF580000C C000822 |                    | 2720875 | AF5832030, Program Assessment & Coordina       |               | 0        |           | 0         | Default Local Use Value      | \$236,776.05                   | \$0.00                    | \$0.00                  | \$0.00                   | \$236,776.05    |
| 5350      | 089-X-0319      | -2018              | 25400        | Operation : AF580000C C000822 |                    | 2720667 | AF5810000, Advanced Fuels Research, Develo     |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$800,000.00              | \$0.00                  | \$800,000.00             | \$800,000.00    |
| 5350      | 089-X-0319      | -2018              | 25400        | Operation : AF580000C C000822 |                    | 2720874 | AF5832020, Systems Analysis                    |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$402,960.00              | \$57,040.00             | \$460,000.00             | \$460,000.00    |
| 5350      | 089-X-0319      | -2014              | 25400        | Operation : AF580000C C000822 |                    | 2720875 | AF5832030, Program Assessment & Coordina       |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$0.00                    | \$400,000.00            | \$400,000.00             | \$400,000.00    |
| 5350      | 089-X-0319      | -2017              | 25400        | Operation : AF580000C C000822 |                    | 2720625 | AF5855000, Fuel Resources R&D                  |               | 0        |           | 0         | Default Local Use Value      | \$1,298.93                     | \$0.00                    | \$0.00                  | \$0.00                   | \$1,298.93      |
| 5350      | 089-X-0319      | -2018              | 25400        | Operation : AF580000C C000822 |                    | 2720875 | AF5832030, Program Assessment & Coordina       |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$40,296.00               | \$5,704.00              | \$46,000.00              | \$46,000.00     |
| 5350      | 089-X-0319      | -2018              | 25400        | Operation : NT040000C C002805 |                    | 2720882 | NT0402000, National Scientific User Facility N |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$0.00                    | \$350,000.00            | \$350,000.00             | \$350,000.00    |
| 5450      | 089-X-0321      | -2014              | 25400        | Operation : BM010000 C000846  |                    | 1009218 | BM0107000, Biopower                            |               | 0        |           | 0         | Default Local Use Value      | \$1,252.09                     | \$0.00                    | \$0.00                  | \$0.00                   | \$1,252.09      |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : HT000000C C002796 |                    | 1009198 | HT0800000, Technology Validation               |               | 0        |           | 0         | Default Local Use Value      | \$714.20                       | \$0.00                    | \$0.00                  | \$0.00                   | \$714.20        |
| 5450      | 089-X-0321      | -2013              | 25400        | Operation : EL1700000 C000955 |                    | 1005091 | EL1708000, DOE Specific Investments            |               | 0        |           | 0         | Default Local Use Value      | \$401.75                       | -\$401.75                 | \$0.00                  | -\$401.75                | \$0.00          |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : HT000000C C002796 |                    | 1009190 | HT0100000, Fuel Cell Systems R&D               |               | 0        |           | 302017    | TCF Funding - Managed by OTT | \$294.34                       | \$0.00                    | \$0.00                  | \$0.00                   | \$294.34        |
| 5450      | 089-X-0321      | -2014              | 25400        | Operation : GT000000C C002910 |                    | 1005612 | GT0100000, Enhanced Geothermal Systems         |               | 0        |           | 0         | Default Local Use Value      | \$6,283.33                     | \$0.00                    | \$0.00                  | \$0.00                   | \$6,283.33      |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : GT000000C C002910 |                    | 1005613 | GT0300000, Hydrothermal                        |               | 0        |           | 0         | Default Local Use Value      | \$212,958.02                   | \$0.00                    | \$0.00                  | \$0.00                   | \$212,958.02    |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : PG000000C C002840 |                    | 1005604 | PG0400000, Innovation & Deployment             |               | 0        |           | 0         | Default Local Use Value      | \$62,004.64                    | \$0.00                    | \$0.00                  | \$0.00                   | \$62,004.64     |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : SL000000C C002911 |                    | 1005616 | SL0300000, Systems Integration Balance of S    |               | 0        |           | 0         | Default Local Use Value      | \$500,000.00                   | \$1,127,158.00            | \$0.00                  | \$1,127,158.00           | \$1,627,158.00  |
| 5450      | 089-X-0321      | -2018              | 25400        | Operation : HT000000C C002796 |                    | 1009190 | HT0100000, Fuel Cell Systems R&D               |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$300,000.00              | \$0.00                  | \$300,000.00             | \$300,000.00    |
| 5450      | 089-X-0321      | -2015              | 25400        | Operation : SL000000C C002911 |                    | 1005616 | SL0300000, Systems Integration Balance of S    |               | 0        |           | 0         | Default Local Use Value      | \$801.50                       | \$0.00                    | \$0.00                  | \$0.00                   | \$801.50        |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : VT000000C C001096 |                    | 1005556 | VT1301000, Vehicle and System Simulation ar    |               | 0        |           | 0         | Default Local Use Value      | \$5,774.29                     | \$0.00                    | \$0.00                  | \$0.00                   | \$5,774.29      |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : HT000000C C002796 |                    | 1009190 | HT0100000, Fuel Cell Systems R&D               |               | 0        |           | 0         | Default Local Use Value      | \$741,092.08                   | \$0.00                    | \$0.00                  | \$0.00                   | \$741,092.08    |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : SL000000C C002911 |                    | 1005616 | SL0300000, Systems Integration Balance of S    |               | 0        |           | 0         | Default Local Use Value      | \$7,158.23                     | \$0.00                    | \$0.00                  | \$0.00                   | \$7,158.23      |
| 5450      | 089-X-0321      | -2016              | 25400        | Operation : ED000000C C000949 |                    | 1009209 | ED2701000, Next Generation Manufacturing       |               | 0        |           | 0         | Default Local Use Value      | \$491,168.00                   | \$0.00                    | \$0.00                  | \$0.00                   | \$491,168.00    |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : VT000000C C001096 |                    | 1005556 | VT1301000, Vehicle and System Simulation ar    |               | 0        |           | 0         | Default Local Use Value      | \$7,401.00                     | \$0.00                    | \$0.00                  | \$0.00                   | \$7,401.00      |
| 5450      | 089-X-0321      | -2018              | 25400        | Operation : GT000000C C002910 |                    | 1005613 | GT0300000, Hydrothermal                        |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$425,000.00              | \$0.00                  | \$425,000.00             | \$425,000.00    |
| 5450      | 089-X-0321      | -2018              | 25400        | Operation : VT000000C C001096 |                    | 1005554 | VT1201000, Batteries & Electric Drive Technol  |               | 0        |           | 0         | Default Local Use Value      | \$0.00                         | \$2,200,000.00            | \$0.00                  | \$2,200,000.00           | \$2,200,000.00  |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : HT000000C C002796 |                    | 2223156 | HT1100000, Technology Acceleration             |               | 0        |           | 0         | Default Local Use Value      | \$25,779.00                    | \$0.00                    | \$0.00                  | \$0.00                   | \$25,779.00     |
| 5450      | 089-X-0321      | -2015              | 25400        | Operation : ED000000C C000949 |                    | 1009209 | ED2701000, Next Generation Manufacturing       |               | 0        |           | 0         | Default Local Use Value      | \$172,184.72                   | \$0.00                    | \$0.00                  | \$0.00                   | \$172,184.72    |
| 5450      | 089-X-0321      | -2017              | 25400        | Operation : VT000000C C001096 |                    | 1005554 | VT1201000, Batteries & Electric Drive Technol  |               | 0        |           | 0         | Default Local Use Value      | \$1,774,995.30                 | \$0.00                    | \$0.00                  | \$0.00                   | \$1,774,995.30  |
| 5498      | 089-X-0321      | -2017              | 25400        | Operation : 4.56E+08 C003005  |                    | 6600146 | 456160031, Industry - Domestic                 | 4860966       | CHAGR873 | 0         | 0         | Default Local Use Value      | \$185,354.16                   | \$0.00                    | \$0.00                  | \$0.00                   | \$185,354.16    |
| 6600      | 089X0337        | -2014              | 25400        | Operation : CJ0100000 C002599 |                    | 3166012 | CJ0100000, ARPA-E Projects                     | 0             |          | 1250      | 0         | CHARPA-0001250               | \$88,682.91                    | \$0.00                    | \$0.00                  | \$0.00                   | \$88,682.91     |
| 6600      | 089X0337        | -2014              | 25400        | Operation : CJ0100000 C002599 |                    | 3166012 | CJ0100000, ARPA-E Projects                     | 0             |          | 0         | 0         | Default Local Use Value      | \$2,547.40                     | \$0.00                    | \$0.00                  | \$0.00                   | \$2,547.40      |
| 6600      | 089X0337        | -2014              | 25400        | Operation : CJ0100000 C002599 |                    | 3166012 | CJ0100000, ARPA-E Projects                     | 0             |          | 1249      | 0         | CHARPA-0001249               | \$403,257.96                   | \$0.00                    | \$0.00                  | \$0.00                   | \$403,257.96    |
| 6600      | 089X0337        | -2016              | 25400        | Operation : CJ0100000 C002599 |                    | 3166012 | CJ0100000, ARPA-E Projects                     | 0             |          | 1314      | 0         | ARPA-E Lab Allocations       | \$538,788.65                   | \$0.00                    | \$0.00                  | \$0.00                   | \$538,788.65    |

|                               |  |  |  |  |  |  |  |  |  |  |  |  |                  |                  |                  |                  |                  |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|------------------|------------------|------------------|------------------|------------------|
| <b>Non-Appropriated Total</b> |  |  |  |  |  |  |  |  |  |  |  |  | \$14,363,239.26  | \$24,455,827.60  | \$1,983,813.11   | \$26,439,640.71  | \$40,802,879.97  |
| <b>DOE Appropriated Total</b> |  |  |  |  |  |  |  |  |  |  |  |  | \$168,119,361.16 | \$353,005,486.58 | \$141,014,380.88 | \$494,019,867.46 | \$662,139,228.62 |

|                    |  |  |  |  |  |  |  |  |  |  |  |  |                  |                  |                  |                  |                  |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|------------------|------------------|------------------|------------------|------------------|
| <b>SF-30 Total</b> |  |  |  |  |  |  |  |  |  |  |  |  | \$182,482,600.42 | \$377,461,314.18 | \$142,998,193.99 | \$520,459,508.17 | \$702,942,108.59 |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|------------------|------------------|------------------|------------------|------------------|

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------|
| <b>FPDS-NG Total [Action Obligation]</b>                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \$141,014,380.88 |
| <b>FPDS-NG Total [Base And Exercised Options Value]</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \$142,998,193.99 |
| <b>FPDS-NG Total [Base And All Options Value]</b>       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \$142,998,193.99 |

Agency Sub-Report

| Agency                                  | Obligation Change Amount |
|---|--------------------------|
| -----                                   | -----                    |
| Department of Commerce                  | -509,058.59              |
| Department of Health and Human Services | -61,332.07               |
| Executive Office of the President       | -158.82                  |

BROOKHAVEN NATIONAL LABORATORY  
 CONTRACT MOD # 0122 [Financial]  
 DE-SC0012704

| Fund Code | Fund Code Title | Appropriation Year | Object Class | Object Class Title | Legacy B&R Control | OCL | Program | Program Title | WFO | WFO Title | Local Use | Local Use Code | Beginning Uncosted Obligations | Budget Authority Previous | Budget Authority Change | Budget Authority Revised | Total Available |
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|-----|---------|---------------|-----|-----------|-----------|----------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|
|-----------|-----------------|--------------------|--------------|--------------------|--------------------|-----|---------|---------------|-----|-----------|-----------|----------------|--------------------------------|---------------------------|-------------------------|--------------------------|-----------------|

|                               |            |
|-------------------------------|------------|
| Nuclear Regulatory Commission | 168,113.40 |
|-------------------------------|------------|

|   |                      |
|---|----------------------|
| Work for Others Funds Associated with Federal Agencies: | -----<br>-402,436.08 |
|---|----------------------|

|                  |                |
|------------------|----------------|
| Total DOE Funds: | 141,014,380.88 |
|------------------|----------------|

|                               |              |
|-------------------------------|--------------|
| Total Non-Appropriated Funds: | 1,983,813.11 |
|-------------------------------|--------------|

|              |                         |
|--------------|-------------------------|
| Grand Total: | -----<br>142,595,757.91 |
|--------------|-------------------------|