

SECTION 00 73 10
SUPPLEMENTARY CONDITIONS (Revised AD-2)

PART 1 - GENERAL

1.1 PROJECT COMPLETION

- A. This project is one where the contract completion date shall be adhered to. Failure to be “substantially complete” by the completion date established in the signed contract will be considered by BNL as being non-responsive and could lead to the barring of the Contractor from bidding future projects at BNL for a period of one (1) year.
- B. Substantial Completion is the stage in the progress of the Work when the Work or a designated portion thereof is sufficiently complete, as determined by MPO in accordance with the Contract Documents, so as to be able to be occupied or utilized for its intended use.

1.2 SAFETY REQUIREMENTS

- A. All Contractor and Subcontractor employees are required to attend BNL’s Contractor/Vendor Orientation Training.
- B. All Contractor and Subcontractor employees who work on or near energized parts as defined in NFPA 70E shall complete the Electrical Safety 1 Training Course. The course is available on the Web at <http://training.bnl.gov/course/elecsaf1>, and is valid for one (1) year. In addition to completing this course, each organization’s Electrical Work Supervisor must discuss the “Standard for Electrical Safety in the Workplace” (NFPA 70E) requirements and specific electrical hazard(s) and risk information with their staff. This job briefing should discuss specific electrical work procedures, protective equipment requirements, and departmental contacts at the local application level. This job level discussion can be informal; however, a record of this briefing shall be documented. All Contractor and Subcontractor employees that “Work On or Near” electrical circuits shall have taken and passed a CPR training program that has been approved by BNL.
- C. MPO will arrange and ESH&Q Division will provide additional safety instructions, as required. All personnel shall conform to special requirements for wearing TLD’s, personal protective equipment, protective clothing, respirators, and other safety measures as required. TLD’s, only, will be provided by BNL at no charge, unless otherwise specified.

AD-2: Section 00 73 10: Add paragraphs 1.2.D. thru 1.2.I.

D. Drug-Free Workplace:

1. Definitions. As used in this clause--

“Controlled substance” means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

“Conviction” means a finding of guilt (including a plea of *nolo contendere*) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

“Criminal drug statute” means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession, or use of any controlled substance.

“Drug-free workplace” means the site(s) for the performance of work done by the Contractor in connection with a specific contract at which employees of the Contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

“Employee” means an employee of a Contractor directly engaged in the performance of work under this Agreement.

“Directly engaged” is defined to include all direct cost employees and any other Contractor employee who has other than a minimal impact or involvement in contract performance.

“Individual” means a Contractor that has no more than one employee including the Contractor.

2. Within 30 days after award (unless a longer period is agreed to in writing by BSA’s PPM Division, or as soon as possible for contracts of less than 30 days performance duration), the Contractor shall:
 - a. Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited on the Brookhaven site and specifying the actions that will be taken against employees for violations of such prohibition;
 - b. Establish an ongoing drug-free awareness program to inform such employees about (i) the dangers of drug abuse in the workplace; (ii) the Contractor's policy of maintaining a drugfree workplace; (iii) any available drug counseling, rehabilitation, and employee assistance programs; and (iv) the penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
 - c. Provide all employees engaged in performance of the contract with a copy of the statement required by subparagraph (b)(1) of this clause;
 - d. Notify such employees in writing in the statement required by subparagraph (b)(1) of this clause that, as a condition of continued employment on this Agreement, the employee will:
 - 1) abide by the terms of the statement; and
 - 2) notify the employer in writing of the employee’s conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction;
 - e. Notify the BSA Contractual Representative in writing within 10 days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
 - f. Within 30 days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:
 - 1) take appropriate personnel action against such employee, up to and including termination; or
 - 2) require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency; and
 - g. Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) through (b)(6) of this clause.
3. In addition to other remedies available to BSA, the Contractor's failure to comply with the requirements of paragraph (b) of this clause may render the Contractor subject to suspension of contract payments, termination of the contract for default, and suspension from award of further BSA contracts.
4. Substance Abuse Program:

- a. Program Implementation. The Contractor shall, consistent with BSA's Alcohol and Substance Abuse Program, as defined in SBMS, maintain a compliant workplace drug and alcohol testing program:
 - 1) All Contractor employees coming into a construction area are subject to testing.
- b. Remedies. In addition to any other remedies available to BSA, the Contractor's failure to comply with the requirements of this Article and perform in a manner consistent with this Article may render the Contractor subject to the suspension of contract payments and/or termination for default.
- c. Subcontracts:
 - 1) The Contractor agrees to notify BSA reasonably in advance of, but not later than 5 days prior to, the award of any subcontract the Contractor believes may be subject to the requirements of the BSA Program.
 - 2) The Contractor shall require all subcontractors to implement a Workplace Substance Abuse Program that complies with the requirements of the BSA Program as a condition for award of the subcontract.
 - 3) The Contractor agrees to include, and require the inclusion of, the requirements of this clause in all subcontracts, at any tier.
- d. Compliance. BSA shall monitor the Contractor's implementation of the program for effectiveness and compliance with this Article.

E. Substance Abuse Program Introduction:

- 1. BSA and the BSA Project Team are committed to providing a safe workplace for the workers assigned to its construction project, promoting high standards of employee health, and fostering productivity that satisfies their quality expectations. Consistent with the intent and spirit of this commitment, the project has established a substance abuse testing specification for the project with the goal of maintaining a work environment that is free from the effects of the use of illegal drugs and alcohol. This specification is not intended as a substitute for the Contractor's complete written substance abuse policy. Normally, such policies include other important features, including, but not limited to, an employee education and awareness program, a supervisor-training program, and an employee assistance program.

F. Program Requirements:

- 1. All Contractors and sub-contractors must have and enforce a written substance abuse program incorporating the testing requirements, terms, and conditions set forth below. This plan is applicable to all employees, current and prospective, in order to be eligible to perform work at the project site. The Contractor must identify a project representative who will be responsible for implementing this program. The Contractor must comply with this plan. Suppliers, vendors, and visitors are subject to confirmation of their abstinence from the possession or use of substances indicated in this plan. A copy of the substance abuse program must be submitted to BSA Project Manager for approval prior to commencement of work on the project site.
- 2. The substance abuse program must apply to the employees of all tier contractors working on the project site. This includes workers, new hires, replacement workers, and supervisory personnel. No employee or prospective employee of a contractor shall be permitted to work on the project site unless such employee has submitted to testing as required by this plan and unless the results of such testing are negative as hereinafter defined. Contractors must maintain a summary report of the substance abuse program compliance for review by BSA.
- 3. All Contractors must train their respective employees in methods that will allow them to recognize substance abusers. Supervisory employees shall be trained to take action, and to confront a substance abuser in a manner consistent with generally accepted safety training procedures.

4. The BSA project management reserves the right to audit any substance abuse program required by this plan, to verify compliance, upon 24-hour notice to the Contractor of intent to audit. BSA project management shall have free right of access to all relevant records of the Contractor and their subcontractors and suppliers for this purpose, provided such record disclosures are within the scope of guidelines pertaining to the confidentiality of employee records.
5. The Contractors' pre-engagement employees who receive a positive test result shall immediately leave the project site. Transportation of employees receiving a positive test result is the direct responsibility of the employing contractor. Furthermore, pre-engagement employees receiving a positive test result shall not be permitted to return to the project site earlier than 90 days from the date of the positive test. At that time the employee may begin the process outlined by this specification again. If a current employee who tested positive qualifies and successfully completes the Contractor assessment /substance abuse treatment program, a program approved by the Project, the employee will be exempt from the 90-day requirement if said employee agrees to the following:
 - a. submit to substance abuse testing as described in this specification and receive a negative test result; and
 - b. agree to random substance abuse testing not to exceed one test per 500 work hours over a 3-year period from the date of return to the project site.

G. Testing Requirements:

1. The BSA Project Management requires:
 - a. pre-engagement drug testing;
 - b. drug and alcohol testing for reasonable suspicion of illegal drug use;
 - c. post accident / incident drug and alcohol testing; and
 - d. drug testing following the discovery of illegal or unauthorized drugs or paraphernalia.
2. All drug testing must be conducted by a laboratory certified by the National Institute of Drug Abuse (NIDA), with test results interpreted by a licensed medical review officer. Tests for alcohol shall be performed by using either a saliva test or a Breathalyzer test comparable to the type used by state or local law enforcement officials. Furthermore, alcohol confirmatory tests shall be performed by using either a blood alcohol test or a Breathalyzer test comparable to the type used by state or local law enforcement officials. The collection site(s) and collection practices shall meet the requirements outlined by NIDA.
3. Substance abuse testing shall be conducted in accordance with specified requirements found in 10 CFR 707. Initially, the substances that will be screened will consist of the "NIDA 5." However, the Project reserves the right to expand the test panel to include the following substances, should the need be established:

H. 10-Panel Test Plus Alcohol Threshold Limits Substance:

Initial Limit GC/MS Confirmation Limit

Alcohol 0.04% 0.04%
Amphetamines 300 ng/ml 300ng/ml
Cocaine metabolites 300 ng/ml 150 ng/ml
Marijuana metabolites 20 ng/ml 10 ng/ml
Opiate metabolites 300 ng/ml 150 ng/ml
Phencyclidine 25 ng/ml 25 ng/ml
Barbiturates 300 ng/ml 100 ng/ml
Benzodiazepines 300 ng/ml 100 ng/ml
Methadone 300 ng/ml 100 ng/ml
Methaqualone 300 ng/ml 200 ng/ml
Propoxyphene 300 ng/ml 200 ng/ml

I. Definitions:

1. **Positive Tests:** Test results that indicate the presence of legal or illegal substances at or above the threshold limit as set forth in this plan.
2. **Negative Tests:** Test results indicating that legal or illegal substance are at levels below the threshold limits as set forth in this plan.
3. **Pre-engagement Testing:** Drug testing for all substances as set forth in this plan conducted by subcontractors (including lower-tier subcontractors) for their employees or prospective employees prior to arrival on the project site.
4. **For-Cause Testing:** Testing for all substances set forth in this plan conducted by the respective subcontractor for their employees whose behavior on the project site causes either the Project Manager/Project personnel or the respective subcontractor supervisory personnel to reasonably conclude that such behavior may result from substance abuse.
5. **Post-Accident / Incident Testing:** Testing for all substances set forth in this plan conducted by the respective contractor or subcontractor for their employees involved in an injury producing accident or a “near miss” in which injury is avoided or in events resulting in damage to property as determined by the Project Manager/ Project personnel or the respective subcontractor supervisory personnel.

1.3 INDUSTRIAL HYGIENE MONITORING

- A. All work on this Project with regard to, and of, the conditions listed must be done within the occupational exposure limits for Industrial Hygiene hazards set in OSHA 29CFR1926, 29CFR1910, and ACGIH Threshold Limit Values®. Compliance with the OSHA Permissible Exposure Limits and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values® shall be determined by representative personnel exposure monitoring and dosimetry conducted by the Contractor and his Industrial Hygienist. Monitoring shall be continuously performed during the total duration of the hazardous condition. The details of the project’s exposure monitoring equipment, methods, and monitoring strategy shall be included in the Contractor’s Environmental, Health and Safety Plan. Conditions that require industrial hygiene monitoring include, but are not limited to:
1. Asbestos.
 2. Beryllium.
 3. Working with Chemicals, Adhesives, or Lead.
 4. Release of Silica (grinding, drilling, core boring, jackhammering of concrete, masonry, mortar, etc.).
 5. Confined Spaces.
 6. Heat Stress.
 7. Carcinogens.
 8. Noise and Hearing Conditions.
 9. RF/Microwave/Non-Ionizing Radiation.
 10. Static Magnetic Fields.
- B. The Contractor is required to provide qualified monitoring and hazard assessment personnel (per DOE G440.1-3 Occupational Exposure Assessment) to conduct all Industrial Hygiene monitoring.
- C. The Contractor is required to conduct monitoring with calibrated equipment using NIOSH or OSHA approved methods, and to have analysis conducted by an American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing certified laboratory or by National Institute of Standards and Technology (NIST) traceable calibrated direct reading instrumentation. All instrumentation used for surveys shall have been calibrated in compliance with the manufacturer’s specification prior to use in the field.
- D. Copies of all equipment calibration, field sampling sheets, laboratory analysis reports, and hazard assessment evaluation reports are to be provided to MPO.

1.4 WELDING INSPECTIONS

- A. Radiographic examination of welds shall not be performed by the Contractor.
- B. BNL reserves the right to perform radiographic (x-ray) welding inspections on any welds performed by the Contractor under this contract that appear, after visual inspection, not to comply with the Specifications.

1.5 WILDFIRE DANGER

- A. This work will be performed in a wildland area of BNL, where brush fires are a real concern. The Contractor shall ensure that the conduct of operations minimizes the potential of the occurrence of wildland fires.
- B. Preventing the parking of vehicles on grassy areas with engines running, and control of disposal of smoking materials, is the responsibility of the Contractor's Safety Representative.
- C. Ensure gasoline-engine-driven portable generators and air compressors are equipped with spark arresters and that personnel are aware of fire break names if calls to the Fire Department [Ext. 2222 or (631) 344-2222] become necessary.

1.6 SCHEDULE OF VALUES

- A. Successful Offeror shall submit no later than 3 weeks after contract signing the following Schedule of Values breakdown:
 - 1. Breakdown to be constructed by CSI Division.
 - 2. Under General Requirements, at a minimum, separate construction safety related costs from general and special conditions as indicated below:
 - a. General and Special Conditions.
 - b. Insurance and Contractor Controlled Insurance Program (CCIP) program.
 - c. Bond.
 - d. Occupational Medicine Program.
 - e. Construction Safety.

1.7 LEED CERTIFICATION

- A. This project is to be LEED certified. Refer to Section 01 35 36 LEED REQUIREMENTS and Section 01 30 00 SUBMITTAL PROCEDURES for type, required submittals, credits, options and other guidance that will support certification of this project.

1.8 SERVICE INTERRUPTIONS

- A. Notify MPO two (2) weeks in advance of all proposed service interruption unless otherwise specified or directed.
- B. All materials, prefabricated where directed, and labor must be on Site before a shutdown will be permitted.
- C. Increase labor force, use overtime or both, as directed, to insure completion of work in specified time. Include all overtime costs required to complete installation.
- D. Work requiring a power shutdown, must be completely installed, tested, and ready for use in a period not to exceed time specified by MPO.

1.9 SURVEYS AND STAKEOUT

- A. MPO will establish base lines and bench marks at the site of the work from which the Contractor shall complete the layout of the work to be performed under the Contract. From the basic data established by MPO, the Contractor shall establish reference control points and complete the layout of the work.

- B. In addition, MPO will mark and/or stake out all known underground utility locations. Locations are approximate. Contractor shall be responsible to maintain the markings and/or the stakeouts for as long as they are required. Any excavating near these locations shall be by hand to locate utilities exactly.
- C. The Contractor shall be responsible for all measurements that may be required for execution of the work to the exact position and elevation as prescribed in the specifications, shown on the drawings, or as the same may be modified at the direction of MPO to meet changed conditions or as result of modification to the Contract.
- D. Further, the Contractor shall be responsible for the establishment of points, wall and partition lines required by the Subcontractors in laying out their work.
- E. The Contractor shall furnish such stakes and other required equipment, tools and materials, and all labor as may be required in laying out any part of the work from the base lines and bench marks established by MPO.
- F. If, for any reason, bench marks and/or utility location markings, monuments are disturbed, it shall be the responsibility of the Contractor to re-establish them, without cost to BNL, as directed by MPO. MPO may require that construction work be suspended at any time when location and limit marks established by the Contractor are not reasonably adequate to permit checking completed work or the work in progress.
- G. MPO will back charge the Contractor for any re-establishment of stakeouts performed by BNL that were disturbed by the Contractor.

1.10 CONSTRUCTION SAFETY

- A. The Contractor is solely responsible for Construction Safety for the duration of this Contract. Prepare and submit a Construction Health and Safety Plan within two (2) weeks of the Contract signing and before the commencement of any work on site. A Safety Plan Outline with an Occupational Medicine Program example is available from MPO and copies will be handed out at the Pre-Bid meeting. This plan will be reviewed and accepted by BNL and shall include the following:
 - 1. Specific assignment of an individual, employed by the Contractor and named in the Plan, as well as one (1) alternate, as Safety Representative, who will be responsible for job site construction safety. The Safety Representative must demonstrate, with verification of completion of the “30-Hour OSHA Compliance for the Construction Industry” construction safety courses, familiarity with 29 CFR 1926, and the ability of the Safety Representatives to supervise the type of work for which they will be responsible. Sources for training can be obtained from MPO. A Safety Representative shall be on the Project Site whenever construction activities are being performed.
 - 2. A letter or certificate of compliance indicating that the Contractor is aware of, and has reviewed, and will comply with the safety regulations of both the OSHA Standards (29 CFR 1926/1910) and BNL Standards-Based Management System; Standard for Electrical Safety in the Workplace (NFPA 70E) and 10 CFR 851, ES&H Standards (available for reference at MPO).
 - 3. A descriptive outline of the Contractor’s safety program indicating:
 - a. Provisions for emergency aid.
 - b. Specific Identification of “Competent Person” for each activity requiring a competent person in accordance with OSHA 29 CFR 1926, his/her qualifications including relevant length of experience and training, including, but not limited to, Construction Safety Awareness Courses taken applicable to the nature of this project.
 - c. A comprehensive occupational medicine program, under the direction and control of an occupational medicine physician, that provides these services in full compliance with all provisions of Section 8 (“Occupational Medicine”) of Appendix A of the Federal Regulations 10 CFR 851 (“the Rule”), including the following provisions:
 - 1) Plans and implements the occupational services.
 - 2) Is, or is under the direction of, a physician licensed in the state of New York.

- 3) Is staffed by health care professionals with valid New York State licenses in their respective professions.
 - 4) Determines the content of the worker health evaluations in accordance with current sound and acceptable medical practices and all pertinent statutory and regulatory requirements.
- d. A program for training employees in the recognitions and avoidance of unsafe conditions and in the safety regulations applicable to this project. The construction trades shall conduct weekly “tool box” safety and health discussions for on going work with affected employees on the worksite. Additionally, as each new phase of construction begins or change in personnel, a pre-job safety awareness meeting shall be held for all personnel and subcontractors involved in that aspect of the work to review the specific hazards and control measures. The meetings shall emphasize the following:
 - e. Changes in scope of work:
 - 1) Recognized hazards.
 - 2) Identified inspection deficiencies.
 - 3) Future phases of work.
 - 4) Potential problem areas.
 - 5) Coordination of crafts.
 - f. A job specific phase-hazard analysis for this project that identifies all phases of the work, the anticipated hazard and planned prevention/control measure.
 - g. A program certifying that all service, maintenance, and/or construction of electrical equipment is performed in strict compliance with NFPA 70E. All Contractors and service providers must be trained in NFPA 70E and wear the appropriate PPE. See Section 00 72 10 General Conditions, for Contractor training requirements.
 - h. A program certifying that all temporary staging, platforms, scaffolding, planking, bracing, scaffold towers and walkway work is to be designed, erected, used and maintained, and dismantled in accordance with OSHA 29 CFR 1926, BNL SBMS and Modernization Project Office ES&H-802. The Contractor’s Competent Person shall have been formally OSHA-trained in scaffolds standards and safety and shall assure that all personnel engaged in the erection and/or dismantling of scaffolding have been OSHA-trained in the proper scaffold procedures and precautions. The Contractor’s Competent Person shall also assure, through Tool Box training at the Site, that all personnel working on or from the scaffolds have been trained in the proper procedures and precautions while using the scaffolding.
 - i. A program to provide for the frequent and regular inspection and reporting of job site conditions relating to safety.
 - j. A program certifying the safe operating condition and assuring the proper maintenance of earth moving equipment, cranes, vehicles and other such equipment, including an environmental protection spill prevention plan. A Rigging Plan shall be submitted in accordance with the conditions noted in the Supplementary Conditions clause, “SHOP DRAWINGS, MANUFACTURERS DATA, AND SAMPLES”, above, whenever this equipment is to be used on Site.
 - k. A program certifying the safe operating condition and assuring the proper maintenance of permanent and/or temporary light, power and electrical equipment, including protective devices (GFCI) for portable electric tools.
 - l. Upon approval of the Health and Safety Plan by ESH&Q, the Contractor shall make any revisions noted and resubmit five (5) copies of the Plan to MPO for distribution.
 - m. Prior to subcontractors beginning potentially hazardous activities, prepare and submit to MPO for acceptance, a phase hazard analysis for each work activity.

- B. All workers shall be able to comprehend the scope of work and safety instructions required to perform the job. All workers employed by the Contractor and the Sub-Contractor shall acknowledge, in writing, that they have read and understood the Project Safety Plan. If workers cannot read or speak English or are hearing impaired, an interpreter shall be provided by the Contractor to ensure that the scope of work, information regarding hazards associated with the work-site, and safety requirements are relayed to them in a manner in which they can understand. The interpreter shall sign that he has explained the plan, and shall be at the work-site whenever these workers are on the job. The approved Health and Safety Plan shall be available at the job site to all Contractor and Sub-Contractor employees.
- C. When Confined Space Entry is required, the Contractor shall have a written Confined Space Entry Program which complies with OSHA and BNL standards:
 - 1. The program will require the Competent Person (as defined by OSHA) to:
 - a. Establish procedures and practices for safe entry and to determine if a permit is required.
 - b. Have air monitors to check concentration of oxygen, explosive/flammable gases and the specific contaminants of concern (e.g. hydrogen sulfide in sewer utility holes).
 - c. Test and monitor conditions to identify and evaluate hazards.
 - d. Prevent unauthorized entry.
 - e. Station an attendant outside permit spaces during entry.
 - f. Post procedures to summon rescuers and prevent unauthorized personnel from attempting rescue.
 - g. Develop a system for preparing, issuing, using, and canceling entry permits.
 - 2. Permits are required to include an identification of the confined space, its hazards, a list of authorized entrants, the purpose of their entry, and the date and duration of their permits; the current attendants and entry supervisor; and both the results of tests performed and any measures necessary to isolate the permit space and eliminate or control the hazards. The permit must also describe the acceptable entry conditions, emergency equipment and the means to summon rescue and emergency services.
 - 3. Authorized entrants into confined spaces and their attendants and entry supervisors must be trained to be aware of any hazards they may face and be able to recognize signs and symptoms of exposure.
- D. The Contractor shall be required to include the applicable safety requirements in all contracts with all tiers of subcontractors.
- E. Prior to the start of construction, a pre-construction meeting shall be scheduled with the outside contractor to review specific safety requirements of the project.
- F. Lock-Out/Tag-Out (LOTO) is the required method of control when performing service, maintenance, or construction around any machinery where personnel could be injured by startup of the equipment or release of stored energy. A Lock-Out/Tag-Out program shall be included in the Construction Safety Plan that complies with OSHA and is tailored to BNL's LOTO program. Sources of energy shall be, but not limited to, mechanical (kinetic/potential), electrical, electromagnetic, chemical, thermal, hydraulic, and pneumatic. Contractor shall provide his own locks (types specified by BNL), lockout devices, and red tags for Lock-Out/Tag-Out of energy sources(s). A logbook shall also be maintained and kept in a designated area assigned by BNL:
 - 1. It is BNL Policy that working on or near energized electrical circuits will only be allowed when all methods available to perform the work in a de-energized state have been evaluated and determined to be infeasible. Working on or near energized conductors is subject to the restrictions and provisions of the Standard for Electrical Safety in the Workplace (NFPA 70E), and BNL Procedure MPO-ESH-102 Electrical Safety.

2. In order to comply with this Policy, the Contractor shall ensure that all employees who may be required to “Work On or Near” electrical circuits within the BNL AC Distribution System and all associated equipment shall be authorized employees. An authorized employee is deemed as an individual who has been qualified in the skills and knowledge related to the service, maintenance, construction and/or operation of electrical equipment and installations, and has received safety training on the hazards involved, including the wearing of the appropriate personal protective equipment (PPE).
 3. BNL shall have the ability to request the Contractor to provide the appropriate documentation, which will clearly indicate the qualifications and training of any and/or all employees performing such work.
 4. Contractor will arrange for the issuance of a “Working On or Near” Permit as required by the above stated Policy and MPO-ESH-102 Electrical Safety. The Contractor shall give BNL a minimum of 48 hours notice of any requirement to “Work On or Near” to allow time for the BNL permitting process. Working on or near operations that only involve testing, diagnostic work, and/or service tasks on equipment for voltages less than 600 Volts AC to ground may be covered by a testing, troubleshooting, and voltage monitoring energized work permit, which may cover the entire project period. Operations involving “Working On or Near” for voltages greater than 50 Volts AC to ground may require a specific “Working On or Near” Permit for each work situation required. Work will proceed when the “Working On or Near” Permit is completed and all parties performing the work have been informed of the hazards involved and what PPE is to be worn. An authorized Supervisor from the Contractor who is performing the work and a BNL designated Line Manager must sign the permit before any work can be performed.
- G. Concrete and/or Masonry Penetrations are of specific safety concern at BNL. It is BNL policy that the Contractor ensure safe penetration into or through any existing concrete or masonry surface:
1. BNL Standards-Based Management System, ES&H Standards and Facilities and Operations Policies and Procedures shall be followed, including the completion of appropriate Penetration Permits and the provision and use of utility locating/detecting equipment.
 2. In order to comply with these guides, the Contractor shall provide trained “Authorized Employees” and shall submit, for MPO review and approval, the name and type of the utility locating/detecting equipment to be used, as well as the specific names of the trained personnel who will perform the locating task with this equipment and who will execute the penetration work.
 3. Non-aggressive penetrations cannot be executed without first using utility locating/detecting equipment and obtaining approval by MPO.
 4. Aggressive penetrations cannot be executed without first using utility locating/detecting equipment followed by the completion and approval of a MPO Aggressive Penetration Permit.
- H. No work at the Site will be permitted to proceed and no payment requisitions will be authorized until the Construction Safety Plan is submitted and approved. Contractor shall proceed, however, with ordering of equipment and materials upon Contract signing, as specified in Section 013000.
- I. BNL will not tolerate non-adherence to safety requirements under this Contract. These requirements shall include, but not be limited to, all applicable OSHA Safety requirements, the BNL Standards-Based Management System; ES&H Standards, all applicable codes and regulations, and the approved Safety Plan. Failure to comply will result in BNL’s direction to stop work. Non-compliance could also mean the barring of the violating individuals from the BNL Site.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION