

<b>JSC Safety and Health Requirements</b>	JPR No.	<b>1700.1L</b>
	Effective Date:	<b>12/20/2018</b>
	Expiration Date:	<b>12/20/2023</b>
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## Chapter 11.1 Asbestos Control

### 11.1.1. Applicability of Asbestos Control Requirements

You are required to follow Part 11 if you conduct any asbestos-related construction, remodeling or demolition activities at JSC, Sonny Carter Training Facility, or Ellington Field, whether as a JSC organization, a resident support contractor, or a construction and fixed-price contractor. JSC field sites follow equivalent requirements that also meet their state and local regulations.

### 11.1.2. About Part 11

11.1.2.1 Part 11 provides the information, guidance, standards, and procedures necessary to implement NASA and JSC policy relating to asbestos-related activities. The definitive procedures in Part 11 and the basic policies of federal regulations provide a basis for asbestos-related activities at JSC.

The following are the general provisions of Part 11:

- a. Minimum acceptable standards and procedures for all JSC asbestos-related activities. It includes specific performance requirements for the most common asbestos-related tasks at JSC. The standards and procedures set forth are consistent with health and safety standards and procedures in industry and those established by the Occupational Safety and Health Administration, the Environmental Protection Agency (EPA), and NASA. It also applies to other operations that may involve asbestos, even though they are not specifically cited in Part 11.
- b. Policy, procedures, and guidance for conducting asbestos-related activities at JSC with minimum risk to the employees involved and to building occupants. Part 11 identifies controls for protecting workers, work practices, and methods of minimizing asbestos release. Workers and employees who follow these controls will also prevent the unnecessary exposure of building occupants to unacceptable concentrations of asbestos.
- c. Generally, it is only necessary for a job supervisor or foreman to determine whether the work area is known to have Asbestos Containing Materials (ACMs) and to select the appropriate procedures and controls necessary to perform the work. Contact Occupational Health x36726 for a listing of presumed and confirmed ACM in the area of interest.
- d. Areas suspected to have ACM for which no data exist either shall be presumed to have ACM or confirmed by bulk sampling and analysis before the work activity begins. Confirmatory sampling and analysis will be conducted by either the Occupational Health or by the Facility Support Services (FSS) contractor. (See paragraphs 11.1.3.1.c, 11.1.3.1.d., and 11.1.3.1.e. below.)
- e. JSC recognizes some of the requirements within Part 11 procedures may add expense and time delays to procedures previously in place. This is the cost of providing the additional degree of control to ensure the occupational safety and health of workers at JSC.
- f. Part 11 is organized to assist the job supervisor or foreman, referred to as the originator, in effective planning. Oversight and enforcement of the plan and the procedures established by Part 11 will be the responsibility of the Environmental Office (Mail Code JP) and Occupational Health (Mail Code SD). In rare cases, the Environmental Office or Occupational Health will

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issue a stop-work order under the authority of JPD 1700.3, subparagraph 1.3.4, if work practices do not provide sufficient protection to workers and building occupants.

### **11.1.3. How to use Part 11 for planning and conducting asbestos-related activities**

11.1.3.1 Planning and conducting asbestos-related activities shall follow the basic steps listed below:

- a. Establish the job description and initiate the appropriate work order (e.g., work authorization document (WAD), modification, construction, rehabilitation, and repair (MCRR), Construction of Facilities Project). Then identify the asbestos hazard, if known, or request sampling assistance from Occupational Health to determine the hazard if the presence of asbestos is suspected but not known. The following apply:
  - (1) Any Construction of Facilities Project, WAD, or MCRR that will, or has the potential to, disturb facility or building materials shall have a written assessment from Occupational Health or FSS contractors on the presence or absence of ACM.
  - (2) Involve the Environmental Office and Occupational Health in the planning, design, and construction of projects involving Class I and Class II asbestos work.
  - (3) Pre-approved project designs for Class I and Class II activities, involving less than 260 linear feet, 160 square feet, or 35 cubic feet of ACM or presumed ACM (PACM), and pre-approved project designs for a number of Class III and Class IV activities are described in Chapter 11.15 and Chapter 11.16.
  - (4) All Class I, Class II, and Class III projects, not otherwise described in Chapter 11.15 or Chapter 11.16 shall have a formal project design approved by an EPA-accredited project designer. Approval from the Environmental Office or Occupational Health for the design is required.
- b. The originator (usually the foreman or supervisor) shall confirm whether the work area is in the JSC asbestos database as an area containing asbestos. Contact Occupational Health (x36726) for a listing of presumed and confirmed ACM in the area of interest.
- c. If the work area is not in the database, the originator or supervisor checks with the Environmental Office (x36207) or Occupational Health (x36726) to determine whether there is any other evidence of asbestos in the area.
- d. If there is no evidence, the originator requests Occupational Health perform bulk material sampling to determine the presence of asbestos. Occupational Health needs sufficient lead time, usually a minimum of 3 weeks, to coordinate sampling, obtain analyses, and write a report.
- e. The FSS contractor collects bulk asbestos samples in support of its routine operations and maintenance activities. In lieu of sampling, the originator may presume asbestos-containing materials (PACMs) are present.
- f. If there is no ACM, PACM, or evidence of asbestos, the originator may proceed with the job as a normal non-asbestos job.

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- g. If any work area is in the database or other evidence indicates the presence of ACM, the originator plans an asbestos-related activity using Part 11. The originator shall also identify the scope of the work to be performed.
- h. If asbestos is identified in the work area, but no pre-approved project design exists for the job to be performed, follow the alternative procedures of Chapter 11.2, paragraphs 11.2.2 and 11.2.3. The originator develops a project design for the job and has it approved by Occupational Health.
- i. If a pre-approved project design exists for the job, the originator or supervisor reviews the requirements of the procedure and develops the asbestos work permit (JF 664 referenced in Appendix D). Refer to Chapter 11.4 for the classes of asbestos work and to Chapter 11.15 and Chapter 11.16 for job-specific performance requirements of work to be performed. Work permits are not required for Class IV asbestos work. The permit may be used as a coordination or notification document by sending a facsimile copy to the identified JSC office.
- j. The originator or supervisor completes and signs the permit (see Appendix D), identifying the necessary controls.
- k. The Competent Person for the job also signs the permit. Give this permit to the individuals assigned to the task and keep it at the asbestos work site, as well as a copy of the appropriate job-specific performance requirements from Chapter 11.16.
- l. Once the task is completed, return the work permit to the originator for recordkeeping. Maintain executed work permits for at least 1 year, and make them available to the Environmental Office upon request.
- m. All asbestos-related work requires supervision by a Competent Person. The appropriate employer designates the Competent Person for each asbestos-related job. Qualifications of the Competent Person are subject to review by the Environmental Office, Occupational Health, or designated representatives.
- n. During the actual job, perform on-site inspections and monitoring as required by the procedure. If the assigned Competent Person is not at the job site, he or she shall visit the job site a minimum of twice per task and once per shift during the course of the work.
- o. Upon completion of the job, the originator conducts or requests clearance inspection and air monitoring, as required by the procedure. Additionally, the originator, supervisor, or Competent Person shall obtain a Pick-up Request Number by calling the JSC Environmental Office at x36207 and enter this information on the JSC Form 1161, "Pick-up Request for Industrial Solid Waste(s)," and the work permit.
- p. Upon satisfactory clearance inspection and air monitoring results, if required, the originator shall reestablish the work area and prepare and submit any documentation required by the procedure.