18WG 02 82 00.00 30

ASBESTOS REMEDIATION/
18 WING SUPPLEMENT

03/2020

# 1. SECTION 1 – GENERAL

1.1. REFERENCES: The publications below list the criteria issued by the USAF, USFJ, 18th Wing (18WG), 18th Civil Engineer Group (18CEG), and 718th Civil Engineer Squadron (718CES) upon which this supplement is based. GoJ and prefectural laws, regulatory requirements, and procedures defined in this supplement are derived from Japan Environmental Governing Standards (JEGS) guidance and the actually practice of applicable laws, referenced or not.

UNITED STATES FORCES JAPAN/5th AF (USFJ)

| | |
|---|---|
| JEGS | Japan Environmental Governing Standards – 06 Apr 2018 |
| 5AF LETTER | Authorization for Disposal of Asbestos in Japan – 22 Dec 2006 |

UNITED STATES AIR FORCE INSTRUCTIONS (AFI)

| | |
|---|---|
| AFI 32-1001 | Civil Engineer Operations, Ch 15 – 25 Oct 2019 |
| AFI 32-7042 | Waste Management – 7 Nov 14, Ch.1 |

LOCAL SUPPLEMENTS, STANDARDS & MANAGEMENT PLANS

| | |
|---|---|
| 18WG AMOP | 18th WG Asbestos Management & Operations Plan – Jul 2012 |

1.2. This document supplements the U.S.C., CFR, and DoD requirements contained in the SECTION 02 82 00 (Nov 2018) specification, as issued with this contract. For requirements not addressed in this supplement, accomplish as specified in UFGS 02 82 00. However, all definitions and requirements described in detail in this supplement supersede those of UFGS specification and shall be accomplished as stated in this supplement.

1.3. APPLICABILITY: This supplement applies to all 18 Wing, tenant unit, military and U.S. civilian employees, local and foreign nationals, DoD Construction Agents, and contractors performing survey, construction, renovation, or demolition work on facilities or infrastructure on Kadena Air Base (KAB) proper, the 18th Munitions Storage Area (MUNS), and Military Family Housing (MFH) areas on all Okinawa bases under the management jurisdiction of the 18th Wing.

# 2. SECTION 2 – DEFINITIONS

2.1. Air Pollution Control Act: The body of Japanese laws that mirror the content of the USEPA NESHAP (40 CFR 31 subpart A & M) requiring engineering controls to limit the dispersal of airborne asbestos fibers during the demolition and dismantling of buildings containing asbestos, the loading of waste asbestos prior to transportation, and the unloading of waste asbestos at disposal facilities.

2.2. Asbestos Containing Material (ACM): Any material containing more than 0.1 percent asbestos by weight as amended in 2005 under the Ordinance on Prevention of Asbestos Hazards and in 2006 under the USFJ JEGS. All non-detect (ND) results based on the 1.0% standard (such as historical records analyzed prior to the change) are invalid and must be re-accomplished.

2.3. Copy E: The last carbon copy of the Japanese Hazardous Waste Manifest form that must be submitted to the US government after being stamped by the final disposition firm.

2.4. Demolition: The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.

2.5. Friable ACM: Any material containing more than 0.1 percent asbestos (per GOJ & JEGS), that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

2.6. Functional Space: A room, group of rooms, or homogeneous area (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such as classroom(s), a cafeteria, gymnasium, hallway(s), designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions. (40 CFR 763.83)

2.7. Hazardous Waste Manifest (Sangyou Haikibutsu Kanrihyou no Manifesto): A Chain-of-Custody (COC) form used by Japanese companies holding a valid Industrial Waste Collection & Transportation Business License (Sangyou Haikibutsu Shuushuu Unpangyou no Kyoka) that is used to document the details of hazardous waste transport, to including ACM. Two types of forms exist:

2.7.1. Inter-Prefecture Form: This form allows only the entry of the generator, the one transport company, and the local disposal firm, normally a licensed landfill.

2.7.2. Transshipment Form: This form allows the entry of the generator and a number of transport companies including land and/or sea shippers for transshipment between prefectures. This form must be used to transport Specially Controlled Industrial Wastes (SCIW), including Type I ACM waste, from Okinawa to the Japanese mainland.

2.8. Nonfriable ACM (Category I): Asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 0.1% asbestos by weight.

2.9. Nonfriable ACM (Category II): Any material, excluding Category I nonfriable ACM, containing more than 0.1% percent asbestos by weight that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

2.10. Specially Controlled Industrial Waste (SCIW): A Japanese category of industrial waste for which transporters and disposal firms are required to possess a prefecture-issued business license. Asbestos and ACM are classified as SCIW when disposed of in Japan.

2.11. Type I Waste ACM: (JEGS C15.3.7.1.1.) All Type I Waste ACM must be disposed of at Specially Controlled Industrial Waste Disposal (SCIW) landfills which currently exist only on the Japanese mainland.

2.12. Type II Waste ACM: (JEGS C15.3.7.1.2.) Type II Waste ACM may be disposed of at Industrial Waste (IW) landfills either on Okinawa or those on mainland Japan.

2.13. Work Environment Measurement Technician (WEMT): A Japanese Industrial Hygienist-equivalent certification for persons responsible for taking measurements of work environments. The WEMT certification is acceptable

in lieu of the CIH certificate for persons performing personal monitoring of the abatement company's employees.

2.14. Waste Management & Public Cleansing Act (1970): Amended in 1991 to designate waste asbestos and ACM generated from abatement as a SCIW. Under this act, all ACBM, PPE, dust filtration equipment and filters, plastic sheeting material, and other contaminated tools and equipment are included as SCIW. The act restricts the discharge, sorting, storage, collection, transport, recycling, and disposal of ACM.

## 3. SECTION 3: REQUIREMENTS

3.1. Asbestos Abatement Contractor: The Contractor shall be certified/licensed by applicable federal, GOJ, and Prefectural agencies to perform asbestos-related activities.

3.2. In addition to the requirements in the applicable UFGS issued with this contract, the following supplementary requirements and conditions apply:

3.3. COMPETENT PERSON (CP)

3.3.1. In addition to the requirements listed in 29 CFR 1926.32(f) and 29 CFR 1926.1101, possess a valid EPA AHERA Contractor/Supervisor" certificate, and be appointed as CP by contractor management, the full-time CP must have completed JEGS certification as a "Contractor/Supervisor; a minimum of 2 years of on-the-job asbestos abatement experience in the administration and supervision of asbestos abatement projects; and any other GOJ and/or Prefectural certifications/licenses required for asbestos abatement work.

3.4. CERTIFIED/DESIGNATED INDUSTRIAL HYGIENIST (C/DIH)

3.4.1. For abatement work being conducted by individuals subject to the Defense Base Act (generally American contractors), the DIH shall be a CIH as defined in the primary UFGS specifications.

3.4.1.1. In this case, the CIH shall follow EM 385-1-1 and US OSHA 29 1926.1101 for specific worker exposure assessment and medical monitoring requirements

3.4.2. For abatement work being conducted by Japanese nationals and/or individuals subject to the Workers Compensation and War-Hazard Insurance Overseas rules, the DIH can be an equivalent competent person trained as a Work Environment Measurement Technician certificate [Sagyou Kankyou Sokuteishi] in accordance with GOJ Industrial Safety and Health Laws. The DIH must also possess a valid AHERA Asbestos Contractor/Supervisor certificate.

3.4.2.1. In this case, the DIH shall follow EM 385-1-1, US OSHA 29 1926.1101, and asbestos-related GOJ Industrial Safety and Health Laws for specific worker exposure assessment and medical monitoring requirements. Follow the more stringent procedure where the requirements differ between the US and Japanese systems.

3.5. DISPOSABLE PROTECTIVE CLOTHING

3.5.1. Japan marketed protective clothing conforming to JIS T8445 is legal for asbestos work in accordance with the Japan's Asbestos Hazard Prevention Standard.

3.6. DISPOSABLE CONTAINERS

3.6.1. Use double wrapped high-strength plastic bags as disposal containers for all ACM wastes as required by 29 CFR 1926.1101, GOJ, JEGS, and Prefectural, and receiving landfill requirements.

3.7. MEDICAL SURVEILLANCE REQUIREMENTS

3.7.1. Medical surveillance requirements shall conform to 29 CFR 1926.1101, GOJ, and Prefectural requirements. Asbestos workers shall be enrolled in a medical surveillance program that meets 29 CFR 1926.1101 (m) requirements and other pertinent GOJ and Prefectural requirements. Submitted medical examinations must have been conducted within the last 12 months.

3.8. TRAINING PROGRAM

3.8.1. The Contractor's training program shall include not only the training requirements of [EPA] 40 CFR 763 and [OSHA] 29 CFR 1926.1101(k)(9), but include applicable GOJ and Prefectural requirements.

3.9. WARNING SIGNS

3.9.1. All asbestos warning signs must be printed bilingually in English and Japanese with the following text:

| | |
|---|---|
| DANGER | 危険 |
| ASBESTOS | **アスベスト** |
| MAY CAUSE CANCER | **がん発生の可能性有り** |
| CAUSES DAMAGE TO LUNGS | **肺の障害が生じる** |
| AUTHORIZED PERSONNEL ONLY | **無断立入禁止** |
| WEAR RESPIRATORY PROTECTION AND | **この先、防じんマスク及び** |
| PROTECTIVE CLOTHING IN THIS AREA | **防護服を利用すること** |

3.9.2. Where the use of respirators and protective clothing is required in the regulated area under this section, the warning signs shall include the following:

3.9.3.

| | |
|---|---|
| WEAR RESPIRATORY PROTECTION AND | **この先、防じんマスク及び** |
| PROTECTIVE CLOTHING IN THIS AREA | **防護服を利用すること** |

3.10. WARNING LABELS

3.10.1. All asbestos warning labels and tape must be printed bilingually in English and Japanese with the following text:

| | |
|---|---|
| DANGER | 危険 |
| CONTAINS ASBESTOS FIBERS | 石綿繊維含有物 |
| MAY CAUSE CANCER | **がん発生の可能性有り** |
| CAUSES DAMAGE TO LUNGS | **肺の障害が生じる** |
| DO NOT BREATHE DUST | 粉じんを吸引してはならない |
| AVOID CREATING DUST | 粉じんを発生させるな |

3.11. INDEPENDENT TESTING LABORATORY

3.11.1. The testing laboratory shall be completely independent from the Contractor as recognized by federal, GOJ, and Prefectural regulations.

3.12. POLARIZED LIGHT MICROSCOPY (PLM)

3.12.1. In addition to the standard requirements for PLM analyses of asbestos, the laboratory must have a working knowledge of "*trace*" amounts as defined in JEGS.

3.12.2. The requestor shall provide the entire text content of JEGS paragraph C15.3.9.2 and paragraph 3.11.2.3., below, to the lab at the time the sample(s) are provided for analysis.

3.12.2.1. For a valid PLM result of "*non-detect*" (ND) indicating that the material is considered less than 0.1% asbestos, the fiber analysist must reads at least 5 slides during analysis during which no trace fibers are identified.

3.12.2.2. "*Trace*," or ,"*less than one percent*," PLM results (detected but not quantifiable by PLM) shall be considered to be more than 0.1% asbestos unless proven to be less than 0.1% by the use of appropriate quantification method such as Transmission Electron Microscopy (TEM) or 1000 point-counting.

3.12.2.3. ND results submitted to the COR must contain a note on the laboratory analysis sheet stating that the samples identified as ND contain less than 0.1% asbestos in accordance with JEGS requirements; or be submitted with an attached letter, on the laboratory's letterhead, endorsed by the certified PLM technician, identifying the sample numbers and defining ND as above.

3.13. WORKER TRAINING & CERTIFICATION OF WORKER ACKNOWLEDGEMENT

3.13.1. Training documentation is required for each employee who will perform OSHA Class I, Class II, Class III, or Class IV asbestos abatement operations. Such documentation shall be submitted on a Contractor generated form titled "Certificate of Workers Acknowledgment", to be completed for each employee in the same format and containing the same information as the example certificate at the end of this section.

3.14. CLEANUP AND DISPOSAL:

3.14.1. All ACM waste generated from this project becomes the property of the Contractor and shall be properly labeled, packaged, temporarily stored, transported, and disposed of off-base as specified and in accordance with all applicable federal, JEGS, GOJ, and Prefectural regulations and requirements.

3.14.1.1. Any company transporting ACM waste from KAB must possess a valid Industrial Waste Collection & Transportation Business License (*Sangyou Haikibutsu Shuushuu Unpangyou no Kyoka*).

3.14.1.2. Schedule ACM waste transport company's pickup sufficiently in advance to allow the Asbestos Program Manager (APM) or other 718CES Environmental office representative to come to the temporary storage site to inspection shipment prior to transport. (Call 634-2600 to request a HW transport inspection.)

3.14.1.2.1. All items shall be properly bagged and labeled in advance of the inspection.

3.14.1.2.2. The APM or representative shall annotate the Japanese Hazardous Waste Manifest prior to shipment. No HW shipments may leave KAB without an inspection.

3.14.1.3. Submit the landfill endorsed copy E of the Japanese Hazardous Waste Manifest to the COR within 60 days of the waste shipment.

3.15. FINAL CLEARANCE SAMPLING & CERTIFICATION:

3.15.1. When abatement is complete, ACM waste is removed from the regulated areas, and final cleanup is completed, the DIH, CIH, or PQP/IS shall conduct Final Clearance Sampling using aggressive methods.

3.15.2. If the analysis results show asbestos fibers below 0.01f/cc, the COR will approve removal of the warning signs and boundary warning tape.

3.15.2.1. For this approval listed above, the COR may be either the KAB Bioenvironmental Engineer (BEE) or other individuals authorized by the BEE, including the assigned project construction inspector.

3.15.2.2. After final cleanup and acceptable airborne concentrations are attained, the Contractor and the COR shall visually inspect all surfaces within the containment in accordance with ASTM E1368 for residual material or accumulated debris.

3.15.2.3. If unacceptable levels of dust are discovered, the contractor shall re-clean all areas showing dust or residual materials and the COR shall re-inspect and certify the area prior to occupancy.

3.16. REGULATORY REQUIREMENTS

3.16.1. In addition to detailed requirements of this specification, work performed under this contract shall comply with the JEGS, EM 385-1-1, applicable federal, GOJ, Prefecture, and local laws, ordinances, criteria, rules and regulations regarding handling, storing, transporting, and disposing of asbestos waste materials.

3.16.2. Matters of interpretation of standards shall be submitted to the COR as a Request for Information (RFI) for resolution before starting work.

3.16.3. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements shall apply.

## 4. SECTION 4: ASBESTOS HAZARD ABATEMENT PLAN (AHAP)

4.1. The contractor shall submit an AHAP for all abatement, renovation, and demolition projects in accordance with SECTION 01 01 00, General Requirements.

4.2. Individual sections of the AHAP may not be submitted separately. The AHAP must be submitted as a complete plan containing all of the elements described below.

4.2.1. Submission of an incomplete AHAP will result in disapproval.

4.3. Do not submit other non-related items together with the AHAP. This will complicate the review and may result in delays.

4.3.1. If there is a justifiable reason why the AHAP does not contain all of the required sections, explain the reason(s) in SECTION II, PART H of the AHAP.

4.3.2. Submit the AHAP to the contracting office a minimum of 14 days prior to the scheduled on-set of asbestos-related activities.

4.4. The submitted AHAP must be approved by the reviewing authorities prior to the COR giving the contractor the Notice to Proceed (NTP). Late submissions, and any subsequent delays, are the responsibility of the contractor.

4.5. All printed submissions of the AHAP will be accompanied with the AHAP in PDF format on a CD.

4.5.1. Diagrams, as described below, in PDF format on the CD shall be provided in the highest resolution possible; i.e. the same resolution as that generated by the original software program used to create it. Diagrams in the printed submission package may be reduced to the same size as the AHAP pages.

4.5.2. To increase quality and decrease file size, as much as possible, attachment pages to the AHAP should be added to the abatement contractor's word-processor generated pages by adding the manufacturer's original PDF spec sheets, rather than adding scanned images of the sheet.

4.6. The AHAP shall consist of the following named sections, as indicated in BOLD, CAPITAL, UNDERLINED text. Each subsequent section is a different chapter of the plan. Subsections are alphabetically designated in Bold only.

4.7. COVER PAGE

4.7.1. The cover page shall have the following information from the top to the bottom:

4.7.1.1. Contract Number (medium font)

4.7.1.2. Project Title and Project Number (medium font)

4.7.1.3. Asbestos Hazard Abatement Plan (large font)

4.7.1.4. Prepared for: 718CES, KAB, Japan (or other DoD Construction Agency) (small font)

4.7.1.5. Plan Prepared by: (List the project designer's name, employer.) (small font)

4.7.1.6. List the date the plan was completed (Drafted: dd mmm yyyy), or if being resubmitted, (Revised: dd mmm yyyy). (small font)

4.8. SECTION I: TABLE OF CONTENTS

4.8.1. List the name and section number of each major section. (page numbers are not required)

4.9. SECTION II: PROJECT DESCRIPTION

4.9.1. PART A: ACM Identification & Abatement Description: Write a brief paragraph containing the following information:

4.9.1.1. Define the room names or numbers, floor numbers, the type and color of materials that will be abated or encapsulated, and their relative asbestos concentration levels.

4.9.1.2. Identify how and when the asbestos was discovered by referencing the project number(s), date, and/or laboratory analysis results that were provided tin the contract as the basis of design for your project.

4.9.1.3. State which, if any, of the ACM materials you will be replacing on this contract. If none, clarify that you will be removing the ACM materials only.

4.9.1.4. State which, if any, of the identified ACM materials you will not be replacing on this contract.

4.9.1.5. Any other relevant details about the scope or limitations of the work.

4.9.1.6. SECTION II: PROJECT DESCRIPTION

For Example:

*"PART A: ACM Identification & Abatement Description:*

*This project will abate brown and tan colored ACM floor tile (2.1% ~ 5.6% chrysotile) on the first 2 floors of Bldg 612 on Kadena Air Base. These materials were sampled and identified as ACM under project number LXEZ 13-4545, Jun 2014. No replacement materials will be provided on this contract. The abatement work is expected to take about four weeks. The 1st floor is currently occupied, so abatement work will not begin on the 1st floor until clearance is received from the government construction inspector."*

4.9.2. Skip a line and provide a brief summary of where and how the materials will be stored until shipment.

For Example:

*"All removed ACM will be double bagged, goose-neck taped, labeled, and stored in a secured container in the parking lot of Bldg 612 until the abatement work is finished. After completion, the waste will be removed and transported to the designated landfill.*

4.9.3. PART B: WORK AREA DIAGRAMS

4.9.3.1. Provide detailed diagrams for each floor or major functional space of the facility in which work will be performed.

4.9.3.2. If including more than one diagram, title each diagram by the installation, building number, floor number, room number and/or functional space, as applicable. (Example: Kadena AB, Bldg 1460, Room 102/Boiler Room)

4.9.3.3. The plan must contain a diagram for each area enclosed in a critical barrier under negative pressure. Include tables showing calculations including:

4.9.3.3.1. Total Area: in square feet (SF or $Ft^2$)

4.9.3.3.2. Total Volume: in cubic feet (CF or $Ft^3$)

4.9.3.3.3. Quantity & CFM Rating of Negative Air Machines (NAM): qnty *x* CFM

4.9.3.3.4. Total Air Volume Provided: cubic feet per hour ($Ft^3$/Hr or CF/Hr)

4.9.3.3.5. Minimum Air Volume Required: cubic feet per hour ($Ft^3$/Hr or CF/Hr)

4.9.3.4. Each diagram will show:

4.9.3.4.1. The site layout to include worksite containment area (dashed or dotted line), NAM locations, decontamination units and load-out units, temporary waste storage location, location of temporary utilities (electrical, water, sewer) and boundaries of each regulated area.

4.9.3.4.2. Areas where ACM will be abated marked in red. Reference numbers shall point to each red area and will be used in conjunction with descriptions in SECTION IV to clearly describe the ACM being abated in each numbered area.

4.9.3.4.3. Reference numbers shall be in the sequence of work to be performed.

4.9.4. PART C: ABATEMENT WORK TASKS

4.9.4.1. Using the same reference numbers listed on the diagrams in PART B, describe the type and estimated quantity of ACM to be abated from each number-referenced area and material.

4.9.4.2. Identify the types of equipment and techniques to be used to remove each type of ACM identified for removal on this contract.

4.9.4.3. List the sequence of material removal, if more than one type of material will be removed.

4.9.4.4. Describe how any special equipment, such as HEPA vacuum attachment drills, will be used.

4.9.5. PART D: SAMPLING PLAN

4.9.5.1. AREA SAMPLING

4.9.5.1.1. Identify the individual who will be performing area sampling; the estimated quantity and locations where samples that will be taken. Identify these locations on the diagram in the AHAP Section III Part B.

4.9.5.2. PERSONNEL SAMPLING

4.9.5.2.1. Identify the individual who will be performing personnel sampling; the estimated quantity of samples; and number of employees from which samples will be taken. Briefly describe the procedure.

4.9.5.3. FINAL CLEARANCE SAMPLING

4.9.5.3.1. Identify the individual who will be performing final clearance sampling; the estimated number, and locations where samples that will be taken. Identify these locations on the diagram in the AHAP Section II Part B.

4.9.6. PART E: ASBESTOS MANAGEMENT PLAN

4.9.6.1. Describe how the removed ACM will be managed during the project.

4.9.6.2. Describe how the ACM will be marked and labeled.

4.9.6.3. Describe the temporary ACM storage plan. Show the location on the diagram in the AHAP Section II Part B where bagged ACM will be located until transported.

4.9.7. PART F: EMPLOYEE TRAINING

4.9.7.1. Describe the contractor’s employee training program in accordance with EPA MAP, training requirements at 40 CFR 763, OSHA requirements at 29 CFR 1926.1101(k) (9), and any additional training requirements by GOJ and Prefectural office.

4.9.8. PART G: RESPIRATORY PROTECTION PROGRAM

4.9.8.1. Describe the implementation of the contractor’s respiratory protection program in accordance with 29 CFR 134.

4.9.9. PART H: PLAN CONTENT & EXCEPTIONS

4.9.9.1. Include the following statement by the plan designer:

*I, _____ (insert designers name), drafter of this AHAP, believe that this plan contains all of the technical and legal requirements applicable to the scope of work on this project, and to the best knowledge, the information contained within is accurate and complete.”*

4.9.9.2. If the AHAP is missing any portions of the plan for justifiable reason(s), explain the reason(s) here.

4.9.9.3. Follow the above statement with the designer's signature block consisting of the designer's name, type of AHERA MAP certificate, employer's name, and the designer's signature.

4.10. SECTION III: PROJECT DOCUMENTS

4.10.1. PART A: PERSONNEL & CONTRACTOR LISTING

4.10.1.1. Personnel and Contractor Listing: List all of the project-related personnel and companies in a single table such as that shown on Attachment 1, to include:

4.10.1.1.1. Worker's name, employer/company name, company role, employee role, certificate type, and certificate expiration date.

4.10.1.1.2. Terms and abbreviations for company role: Prime Contractor (PC), Abatement Contractor (AC), Analysis Laboratory (AL), Industrial Waste Transport Firm (IWT), Privately Qualified Contractor (PQC), Independent Accredited Laboratory (IAL) Certified Land Fill (CLF), and Independent Certified Contractor (ICC).

4.10.1.1.3. Terms and abbreviations for employee role: Asbestos Project Designer (APD), Asbestos Management Planner (AMP), Competent Person (CP), Certified Industrial Hygienist (CIH), Privately Qualified Person/Independent Sampler (PQP/IS), Work Supervisor (WS), Abatement Worker (AW), Bulk Sample Collector (BlkS), Personal Sample Collector (Psnl), Area Sample Collector (Area), Final Clearance Sampler (FCS), Asbestos Sample Analysis (ASA)

4.10.1.1.4. Terms and abbreviations of certificate type: Asbestos Project Designer (APD), Asbestos Management Planner (AMP), Asbestos Contractor Supervisor (ACS), Asbestos Building Inspector (ABI), Asbestos Worker (AW), Certified Industrial Hygienist (CIH), NIOSH 582 (N582), Japanese Work Environment Measurement Technician (WEMT), American Industrial Hygiene Association (AIHA), Nation Voluntary Laboratory Accreditation Association (NVLAP), American Standards and Technology (NIST)

4.10.1.1.4.1. Multiple certifications or roles may be listed in the same column for workers and companies.

4.10.1.1.4.2. Roles and certifications not listed above should be spelled out.

4.10.1.2. Provide copies of the Project Designer (APD) documents:

4.10.1.2.1. Current AHERA Asbestos Project Designer Certificate

4.10.1.2.2. Current Medical Examination Report

4.10.1.2.3. Current Respirator FIT Test

4.10.1.2.4. *NOTE: The medical examination and FIT test are not required if the project designer will not be participating in on-site work.*

4.10.1.3. Provide copies of the Management Planner (AMP) documents, if used on this project:

4.10.1.3.1. Current AHERA Asbestos Management Planner Certificate

4.10.1.3.2. Current Medical Examination Report

4.10.1.3.3. Current Respirator FIT Test

4.10.1.3.4. *NOTE: The medical examination and FIT test are not required if the management planner will not be participating in on-site work.*

4.10.1.4. Provide copies of the Competent Person (CP) documents:

4.10.1.4.1. Appointment Letter: A signed letter from the Abatement Contractor's management or PM assigning the proper authority to the CP in accordance with 29 CFR 1926.32.

4.10.1.4.2. Current AHERA Asbestos Certificate

4.10.1.4.3. Current Medical Examination Report

4.10.1.4.4. Current Respirator FIT Test

4.10.1.4.5. Any other documents showing related certifications and safety training.

4.10.1.5. Provide copies of the Privately Qualified Person (PQP/IS) documents:

4.10.1.5.1. NIOSH 582 certificate.

4.10.1.5.2. Current AHERA Asbestos Certificate

4.10.1.5.3. Current Medical Examination Report

4.10.1.5.4. Current Respirator FIT Test

4.10.1.5.5. Any other documents showing related certifications and training.

4.10.1.6. Provide copies of the Final Clearance Sampler documents, if different from the PQP.

4.10.1.6.1. Valid NIOSH 582 or Japanese Work Environment Measurement Technician (WEMT) certificate (*Sagyou Kankyou Sokuteishi* / 作業環境測定士).

4.10.1.6.2. Document showing the FCS works for a company that is independent from the abatement contractor.

4.10.1.6.3. Current AHERA Asbestos Certificate

4.10.1.6.4. Current Medical Examination Report

4.10.1.6.5. Current Respirator FIT Test

4.10.1.7. Provide copies of all Work Supervisor (WS) documents:

4.10.1.7.1. Current AHERA Asbestos contractor/Supervisor Certificate

4.10.1.7.2. Current Medical Examination Report

4.10.1.7.3. Current Respirator FIT Test

4.10.1.7.4. Other documents showing related certifications and training.

4.10.1.8. Provide copies of all Abatement Worker (AW) documents:

4.10.1.8.1. NIOSH 582 certificate.

4.10.1.8.2. Current AHERA Asbestos Worker (or other) Certificate

4.10.1.8.3. Current Medical Examination Report

4.10.1.8.4. Current Respirator FIT Test

4.10.1.9. Provide copies of the Independent Accredited Laboratory (IAL) documents:

4.10.1.9.1. AIHA certificate.

4.10.1.9.2. NIOSH 582 certificate.

4.10.1.9.3. Any other documents showing certifications or accreditations.

*NOTE: Do not group all AHERA certifications together, followed by all FIT test documents together, etc. The documents for each employee should be grouped according to the employee's role first, then according to employee's name for supervisors and workers, in the exact order as listed in the paragraphs above.*

4.10.1.10. Provide a copy of the waste transport company's Industrial Waste Collection & Transportation Business Permit (IWTL) [*Sangyou Haikibutsu Shuushuu Unpangyou Kyoka* / 産業廃棄物収集運搬業許可].

4.10.1.11. Provide a copy of the waste disposal /landfill company's documents:

4.10.1.11.1. Industrial Waste Disposal Business Permit (IWLF) [*Sangyou Haikibutsu Shuushuu Unpangyou Kyoka* / 産業廃棄物収集運搬業許可] for non-friable ACM waste disposal, and/or

4.10.1.11.2. Specially Controlled Industrial Waste Disposal Business Permit (SCIWLF) [*Tokubetsu Kanri Sangyou Haikibutsu Shobungyou Kyoka* / 産業廃棄物処分業許可] for friable ACM waste disposal, and

4.10.1.11.3. A copy of the contractor's contract with the disposal company to accept ACM waste for this project.

4.10.1.12. Provide copies of certifications for any other persons or companies not mentioned above that are scheduled to participate in the on-site work activities.

4.10.2. PART B: EQUIPMENT, MATERIALS & SUPPLIES DOCUMENTS

4.10.2.1. Include copies of manufacturer's catalog data or specification sheets for equipment, materials, and supplies to be used on-site.

4.10.2.1.1. For all chemicals used on-site, include a copy of the Safety Data Sheets (SDS) immediately after the catalog data or specification sheet.

4.10.2.2. Provide data for the following items:

4.10.2.2.1. Negative Air Machines (NAM)

4.10.2.2.2. High Efficiency Particulate Air (HEPA) and other filters for use with the NAM

4.10.2.2.3. Pressure Differential Monitor

4.10.2.2.4. Respirators & Filters

4.10.2.2.5. Personal Protective Clothing and Equipment

4.10.2.2.6. Glovebags. Written manufacturer's proof that glovebags will not break down under expected temperatures and conditions.

4.10.2.2.7. Duct Tape

4.10.2.2.8. Disposal Containers

4.10.2.2.9. Sheet Plastic

4.10.2.2.10. Wetting Agent

4.10.2.2.11. Strippable Coating

4.10.2.2.12. Material Safety Data Sheets (for all chemicals proposed)

4.10.2.2.13. Certifications showing compliance with ANSI Z9.2 for the local exhaust system to include the following:

4.10.2.2.13.1. Vacuum Cleaning Equipment

4.10.2.2.13.2. Water filtration equipment

4.10.2.2.13.3. Ventilation Equipment

4.10.2.2.13.4. Any other equipment that contain airborne asbestos fibers.

4.11. PART C: RENTAL EQUIPMENT

4.11.1. For any rental equipment used, provide a copy of the letter used to notify the rental agent or owner of the use of the rental equipment and a disclosure of the possibility that the item may become contaminated with asbestos.

*4.11.1.1.* If no rental items are used, include the statement: *"No rental items will be used on this abatement project."*

5. SECTION 5: DURING ABATEMENT & POST-ABATEMENT SUBMITTALS

5.1. UNEXPECTED DISCOVERY OF ASBESTOS

5.1.1. If after the NTP the contractor discovers any previously untested building components suspected to contain asbestos located in areas impacted by the work, the Contractor shall notify the CO who will have the option of ordering up to 3 bulk samples to be obtained at the Contractor's expense for analysis in accordance with JEGS C15.3.9.2.

5.1.1.1. The government may collect additional bulk samples along with the contractor for verification and documentation purposes.

5.1.1.2. If the asbestos content is greater than 0.1 percent, notify the CO and the material will be considered ACM.

5.1.2. Bulk sampling shall be conducted by personnel who possess a valid EPA Model Accreditation Plan (MAP) "Asbestos Building Inspector" certificate and all the required certifications/licenses required by the Government of Japan and the local Prefecture.

5.1.2.1. Conduct all sampling in accordance with 29 CFR 763.86, the presiding UFGS specification and this supplement.

5.1.2.2. Submit all laboratory analysis result reports in accordance with SECTION 7 of this supplement.

5.2. EXPOSURE ASSESSMENT & AIR MONITORING

5.2.1. Initial exposure assessments, negative exposure assessments, air-monitoring results and documentation.

5.2.2. Pressure differential recordings.

5.3. FINAL CLEARANCE SAMPLING (FCS) & LABORATORY ANALYSIS

5.3.1. Only the DIH/PQP may conduct FCS after final clean-up to confirm that asbestos fiber concentration is less than 0.01 fibers per cubic centimeter (f/cc). Conduct sampling in accordance with 40 CFR 763, Subpart E, Appendix A using NIOSH 94-113 Method 7400. Ensure the

laboratory employs the PCM analysis method. All sampling and analysis shall be at the Contractor's expense.

5.3.2. After receiving the final laboratory analysis results and prior to turning off any negative air machines, contact the PM to request an AHERA-certified Building Inspector from CE to inspect the abatement area.

5.3.3. If the CE Building Inspector passes the results, the contractor may turn-off negative air machines and begin demobilization from the site.

5.3.3.1. After passing the inspection, submit the official FCS documents and include the certified copy (red lab stamp) of the laboratory results, a copy of the sample Chain of Custody (COC), and copies of the certificates of the DIH/PQP performing the FCS sampling.

5.3.4. If the inspection fails, re-accomplish clean-up the request another inspection from the PM.

5.4. WASTE RECORDS

5.4.1. The data includes the results of analyses performed, sample locations, the time of collection, and other pertinent data during the life of the contract.

5.5. ASBESTOS "HAZARDOUS WASTE" MANIFEST INSPECTION AND SUBMISSION

5.5.1. All asbestos waste leaving the installation must be accompanied by a serially numbered Japan industrial waste manifest. Request the PM schedule a representative from 718 CES/CEIE to inspect the packed and labeled waste on-site and sign the manifest prior to transporting from the installation.

5.5.2. Within 10 days after receiving the stamped/signed Copy E of the manifest from the disposal company, submit Copy E to the COR.

5.5.2.1. If the contractor fails to submit a stamped Copy E to the COR within 90 days after waste transport, the installation Asbestos Program Manager (APM) will report the delay to the CO who will notify the contractor to initiate an investigation.

5.5.2.2. If the contractor fails to provide the Copy E within 180 days after waste pick-up, the CO may blacklist the contractor from any further HW contracts and/or notify the Prefectural Environmental Office.

# 6. SECTION 6: SMALL-SCALE ASBESTOS SAMPLING PLANS (ASP)

6.1. UNIT-FUNDED SAMPLING

6.1.1. These requirements apply only to small-scale bulk sampling requested by the Bioenvironmental Engineer, the Asbestos Program Manager; or by an individual unit representative for U-Fix-It or small-scale renovation projects.

6.1.2. For larger surveys involving more than 25 units, all data shall be encoded to SDSFIE 3.1 for import to GIS databases and submitted on CD.

6.1.3. All asbestos bulk sampling shall be performed by individuals who possess a valid EPA MAP Asbestos Building Inspector certificate and any certifications or licenses required by the Government of Japan and Okinawa Prefecture.

6.1.3.1. Sampling shall be conducted in accordance with 40 CFR 763.86 and this supplement.

6.1.4. Analyses will be conducted at a laboratory meeting the requirements listed in the Requirements Section of this supplement and results shall conform to the PLM analysis requirements.

6.1.5. All sampling shall be reported, after-the-fact, along with laboratory analysis in accordance with SECTION 7 of this supplement.

6.2. DESIGN-DRIVEN ASBESTOS SAMPLING

6.2.1. If required to perform asbestos sampling during the design stages of a Design-Build Project in order to integrate ACM abatement into the final design, draft an Asbestos Sampling Plan (ASP) consisting of a minimum of the following:

6.2.1.1. Brief description of the objective of the sampling to be performed.

6.2.1.2. Building number, scope of sampling, (exterior only, roof only, all areas, etc.)

6.2.1.3. Name and AHERA certificate of the individual performing the sampling.

6.2.1.4. A listing of the special equipment and/or PPE to be used.

6.2.1.5. Enter a paragraph acknowledging the following:

*"The contractor understands that in order to comply with the JEGS analysis requirements, the laboratory must be provided with the entire text of JEGS paragraph C15.3.9.2. when making the analysis request. Failure to do so may result in unacceptable laboratory analyses that may be rejected, requiring the designer to re-sample all materials at contractor cost."*

6.2.2. Submit the ASP to 718 CES/CEIE and 18 AMDS/SGPB through the COR a minimum of 5-days prior to beginning on-site sampling.

## 7. SECTION 7: ASBESTOS SAMPLING & ANALYSIS REPORT (ASAR)

7.1. Subsequent each bulk sampling and analysis of SACM, submit an ASAR to the COR (or requesting party) within 10 days of receipt of the laboratory analysis results.

7.2. Submit the ASAR within 24 hours of receiving the laboratory results if the customer has requested and is paying for priority services.

7.3. Submit the ASAR to the CO in digital (PDF) format. If the report is greater than 4.0 megabytes (4MB), submit the ASAR on a CD/DVD.

7.4. The ASAR shall consist of the following sections as indicated in BOLD, CAPITAL, UNDERLINED text below.

7.4.1. COVER PAGE:

7.4.1.1. The cover page shall have the following information from the top to the bottom:

7.4.1.2. Requested by: _____(enter requestor's name or unit number)

7.4.1.3. ACM Sampling of Bldg _____ (Enter building number(s))

7.4.1.4. Asbestos Sampling & Analysis Report (in large text)

7.4.1.5. Prepared for: 718CES/CEIE, Kadena AB, Japan (or other DoD Construction Agency)

7.4.1.6. Plan Prepared by: (List the sampler's name and employer.)

7.5. SECTION I: TABLE OF CONTENTS

7.5.1. List the name and section number of each major section. (page numbers are not required)

7.6. SECTION II: ANALYSIS RESULTS SUMMARY

7.6.1. Provide a table that lists data about all samples taken with each row devoted to a single sample. The table shall have the following columns for each row:

7.6.1.1. Table No.

7.6.1.2. Sample Number

7.6.1.3. Building Number

7.6.1.4.

7.6.1.5. Analysis Result (% asbestos)

7.6.1.6. Type of Asbestos

7.7. SECTION III: SAMPLED MATERIAL LOCATION DIAGRAMS

7.7.1. Provide diagrams/floorplans with markings indicating the location where each ACM sample was taken. Reference each location to the line numbers on the attachment that identify the sample number and describe the condition of the ACM.

7.7.1.1. Ask the requestor to provide diagrams of the facility in advance of the work. If no diagrams were provided, make simple diagrams sufficient to clearly identify the areas where samples were collected.

7.7.2. Use Attachment 2 when sampling and assessing the suspect ACM. Fill out the sheet as completely as possible and submit in the ASAR with the analysis results.

7.8. SECTION IV: LABORATORY ANALYSIS RESULT SHEETS

7.8.1.1. Provide each of the certified (red stamp) laboratory analysis result sheets in sample number order.

7.8.1.1.1. For priority requests, first submit the uncertified (no lab stamp) analysis sheets to the requestor via email, followed up with the certified copies in the ASAR.

7.8.1.1.2. Laboratory and analysis requirements must meet those described in the Requirements section of this supplement.

7.9. SECTION IV: LOCATION PHOTOGRAPHS

7.9.1. Provide pages formatted similarly to that of Attachment 3, showing:

7.9.1.1. A color photograph of the sampled location

7.9.1.2. Installation name

7.9.1.3. building number

7.9.1.4. Functional space name

7.9.1.5. Type of material being sampled

7.10. SECTION V: SAMPLER & LABORATORY CERTIFICATES

7.10.1.1. Provide copies of the bulk sampler’s certifications.

7.10.1.2. Provide copies of the analysis laboratory’s certifications.

- End of supplement -