

December 23, 2012

United States Nuclear Regulatory Commission
2443 Warrenville Road
Lisle, IL 60532-4352

**Re: Amendment Request - Permanent Storage Location
AECOM Technical Service, Inc. Office, Lansing, MI
NRC License No. 48-18672-01**

Dear Sir or Madam,

AECOM Technical Services, Inc. (AECOM) is submitting an amendment request to our Nuclear Regulatory Commission (NRC) License No. 48-18672-01 to add a permanent storage location and to further clarify Condition 10.B. regarding the use and storage of licensed materials at temporary job sites. These specific items are discussed in detail below.

Permanent Storage Location Request – Lansing, MI

AECOM was recently audited by the NRC and was notified of a finding in which long-term storage of licensed materials had occurred at the AECOM office located at 401 South Washington Square, Lansing, MI 48933. The licensed materials, which are still present at the facility, consist of four portable nuclear density moisture gauges (NDMGs); two Troxler 3430s gauges and two CPN MC1DRP gauges.

To become immediately compliant, AECOM is submitting the following information to add this location as a permanent storage location.

- Radioactive materials. AECOM is requesting this storage area be established for a maximum of 4 NDMGs. These will include any combination of Troxler 3400 Series gauges or CPN International MC Series gauges.
- Radioactive Sources: Cesium -137 (Troxler 9 mCi, CPN 10 mCi) and Americium-241:Be (Troxler 44 mCi, CPN 50 mCi).
- Security.
 - Storage Security. The proposed storage room that will be used for the permanent storage location is located on the lower level of the building structure. The building has controlled access to tenants only during non business hours. The storage room is located on the west side of the floor as shown on the attached figure. To meet the requirement of two distinct barriers to the sources, the barriers include the locked door of the storage room on the north side of the room and the chain wrapping of the NDMGs. The NDMGs are stored inside their respective Type A cases (trigger locks engaged) and chain wrapped and locked such that the chain would need to be removed to access the case. The chained case is then tethered to a u-bolt embedded into the concrete floor by means of a chain and lock. Future potential means of storage may include storing the NDMGs in their locked cases and stored

room door and the locked storage cabinet. Access to this room is only by AECOM employees that have approved key access.

- Key Access Security. Keys for individual NDMGs removal from storage are controlled by the Office Manager and Office Administrator. An authorized user must request the gauge binder which contains the specific chain locks and gauge trigger lock keys. All binders are stored in a locked cabinet in the Office Administrator office of which access is only through approval of the Office Manager and Office Administrator. Upon return of the gauge to storage, the binder and keys are returned to the locked cabinet.
- Material Receipt and Accountability. Physical inventories will be conducted at intervals not to exceed 6-months to account for all sealed sources and devices received and stored at this location.
- Licensed Material Use. Licensed material will be sealed sources used as part of portable nuclear density moisture gauges that are used to determine the density and/or the moisture of construction materials such as soil, sand, asphalt, etc.
- Survey Instrument. AECOM has a dedicated hand held survey meter at this facility. The meter is a Troxler TroxAlert. AECOM will maintain this meter or an equivalent at this location.
- Storage Description. The proposed permanent storage location is a multi-use storage room for the storage of the NDMGs, general survey equipment, and field sampling equipment. The room is about 18.5 feet wide and 15.5 feet deep with an approximately 12 foot high ceiling. The north, south and east (along the AECOM parking spaces) walls are standard wall construction and dry walled on both sides. The west wall is poured concrete wall with soil backfill. The entrance and egress to the room is a locked door in the NE corner of the room. Shelving storage is present along the interior of the east and north walls.

The NDMGs are stored along the west concrete wall at about the center of the wall.

A radiation survey on the accessible exterior of the storage room using the TroxAlert (S/N 722, calibrated 12/15/12) determined all reading to be less than .08 mR/hr. A similar survey completed the same day by Mr. Lin of the NRC determined reading no higher than background.

The storage room is located on the west side of the lower floor as shown on the attached figure.

- Postings. Postings located immediately inside the storage room door include the NRC Notice to Employee NRC Forms 3 and 3A and "Caution Radioactive Materials"/24-hour Radiological Assistance color sign. All postings are 11x17 in size.
- File system. A file system has been established for Lansing office. The files will include training certificates, inventories, annual reviews, leak test and calibration information as minimum. Files may be maintained in electronic format (PDF, JPG, etc.), hard copy, or any combination of both formats.

All other activities associated with NDMG usage will in accordance to the license application renewal dated January 11, 2011 and subsequent amendment approvals.

Licensed Material Use/Storage – Condition 10.B.

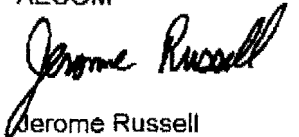
AECOM is requesting Condition 10.B. of our license to be modified to reflect the intent of Item 3 of the license application renewal dated January 11, 2011 which read, "AECOM proposes the possession, use, and storage of portable nuclear density moistures gauges at temporary job sites where the NRC has jurisdiction". Condition 10.B. as it is presented in the current Amendment 21 of the license can be interpreted that licensed material can only be used at temporary job sites and not stored. AECOM requests Condition 10.B. to be amended to read:

Licensed materials may also be used and stored at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed materials.

Thank you for your time and consideration in this amendment request. If you have any questions, please contact me at (847) 279-2505.

Yours sincerely,

AECOM



Jerome Russell
Radiation Safety Officer

Enclosures: As noted

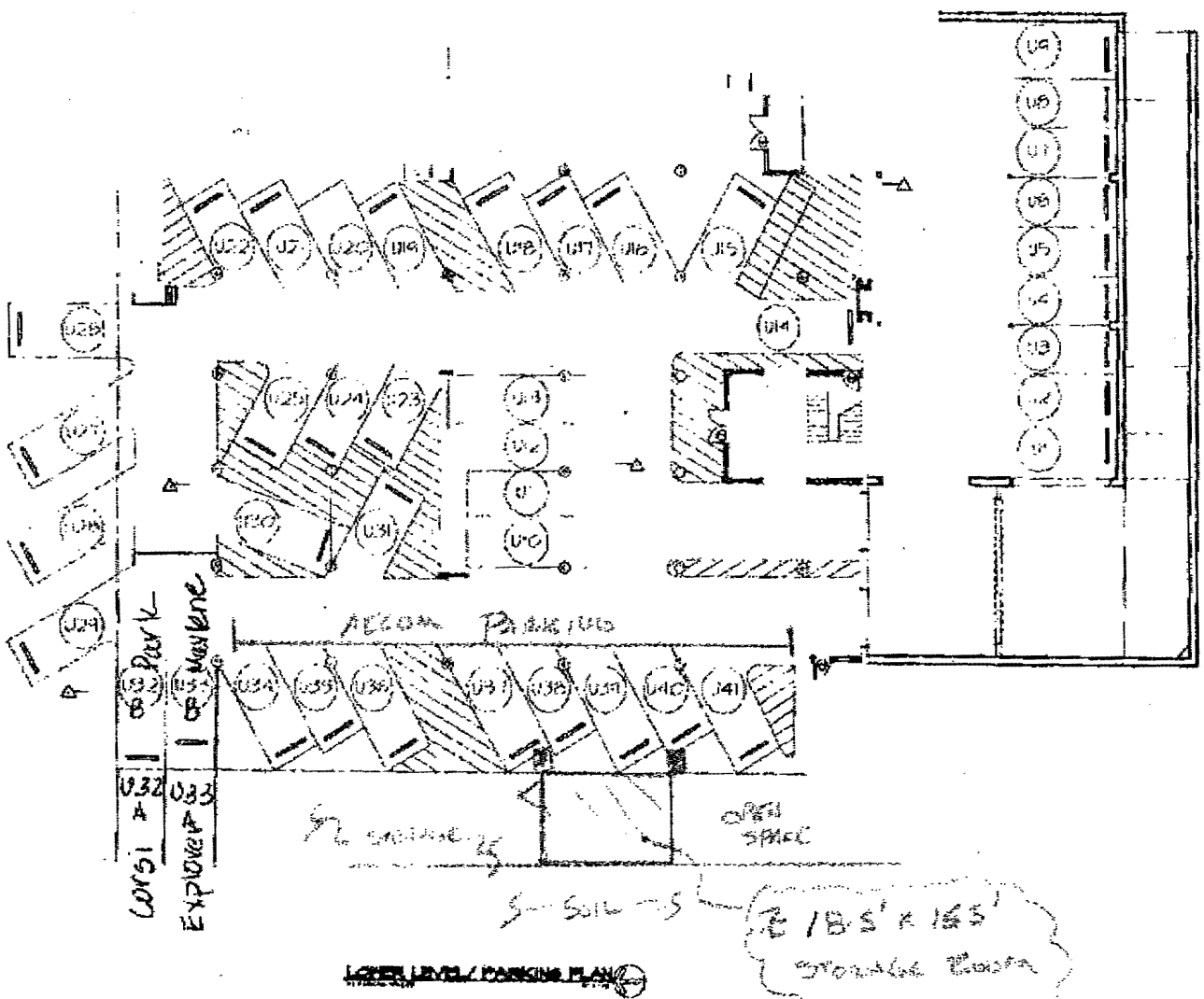
CC: Andrew Bramnik, NRC,
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NDMG STORAGE ROOM LOCATION NTS

AECOM TRANSPORTATION 01/109

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Subject Amendment Request

Project number

From

Name Jerome Russell

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Date transmitted Dec. 23, 2012

Total pages 6

Message

AECOM is submitting an amendment request to our USNRC License. Please contact me if you have any questions or comments