



November 11, 2009

Mr. Arnel Javal
TRC Environmental
130 Liberty Street Field Office
New York, NY 10006

Re: Proposed revisions to the May 13, 2009 approved EHSP

Dear Mr. Javal,

This letter provides revisions to the May 13, 2009 approved Environment, Health & Safety Plan (EHSP).

In Section 2.9.1, replace the third sentence with the following:

This orientation will discuss items including, but not limited to, the EHSP and Emergency Action Plan (EAP) as defined in Section 6.0 herein, PPE requirements, decontamination/deconstruction procedures, fire prevention & protection, hot work permit system, and general safety issues.

In Section 2.9.2, replace the first sentence with the following:

Bovis supervision and subcontractor supervision/foremen shall brief all workers under their span of control daily as to the hazards associated with all planned or anticipated work activities for that day.

In Section 5.7.1, replace the second sentence with the following:

A hierarchy of fall protection shall be employed (i.e. – prior to the use of personal fall arrest systems, fall hazards shall be controlled through engineering controls such as covers, guards, and fully protected work platforms).

In Section 5.7.4, add the following to the end of the section:

Equipment shall be protected from falling into shafts by means of equipment usage restrictions and by hole covers that will have a substantial curb.

Add a new Section 5.7.14 as follows:

Equipment shall be protected from falling at the perimeter of the building by a perimeter cable system designed based on specifications provided in the New York City Building Code section 1607.7.3: Vehicle Barriers for Parking Garages. The system is designed to resist a single load of 6,000 pounds applied horizontally in any direction to the cable system from a vehicle. The system is designed by the EOR, installed by the deconstruction contractor and supervised by Bovis Lend Lease. The system shall be periodically (daily) inspected by Bovis Lend Lease. Any incident resulting in vehicles or loads coming in contact with the system shall require a full inspection of system integrity prior to work resuming. Equipment shall also be protected from falling at the perimeter of the building by stop-logs or curbs until otherwise approved by OSHA.

In Section 5.9.7, add the following to the end of the section:

In the event that negative air systems are required as part of the deconstruction process, the FDNY, EPA, OSHA, DOB, DOL and DEP shall be notified.

Add new Sections 5.9.8 through 5.9.11 as follows:

5.9.8 All authorized personnel requesting access to the deconstruction floor will be required to check-in at the north hoist loading dock to receive instructions on safe entry into the building.

5.9.9 Stairway A, Stairway B or the external scaffold will be the primary means of access to the deconstruction floor. All personnel granted access to the hoist will be met on the designated floor by an escort who will provide instruction as to which means of access to the deconstruction floor is available.

5.9.10 Due to changing conditions at the deconstruction floor, stairways shall be monitored for safe access/egress. No unauthorized personnel shall be allowed to access the deconstruction floor via the stairways.

5.9.11 An observation area for inspectors and visitors shall be established on the deconstruction deck. At all times, regulatory inspectors shall be provided safe access to areas or information necessary, including but not limited to regulatory approved drawings, for the effective execution of their duties.

Add a new Section 5.12.5 as follows (all subsequent sections are renumbered accordingly):

All temporary lighting in the building shall be inspected daily. A log shall be maintained to document corrective actions.

Add a new Section 5.12.11 as follows (all subsequent sections are renumbered accordingly):

Electrical power tools, motors and select electrical components shall be monitored periodically to determine temperature deviations or anomalies that could indicate potential defects that may result in increased risk of fire.

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In Section 5.14.2, replace this section in its entirety with the following:

Cranes shall be maintained and inspected on a daily basis prior to use and operated in accordance with owner/manufacture and as approved by NYC DOB.

In Section 5.16.6, replace this section in its entirety with the following:

A "Gang Box", painted red with "FDNY" stencilled in white, will be located at the front gate. The Gang Box will contain the following documentation for FDNY and NYPD: (i) emergency contact numbers; (ii) copies of all FDNY permits; (iii) a copy of the MSDS sheets; (iv) comprehensive floor plans for each floor, with updated and accurate access and egress marked, including all access routes to interior staircases; (v) shop drawings for the standpipe; (vi) logistics plans that identify the locations of the check valve, the standpipe, any gas or other fuel storage containers, and hoist locations; (vii) an evacuation plan and muster points location; (viii) yellow line on grade leading to the staircase with the operable standpipe; (ix) safety procedures for the north area of the site and (x) additional fire watch considerations relative to Stairway B at 19th to 25th floors. Access to this box will be restricted to FDNY and NYPD personnel and site safety personnel.

In Section 5.16.8, replace this section in its entirety with the following:

A Hot Work Permit system shall be used for all hot work to include torch cutting, burning, welding, grinding, or other spark producing operations. The system shall require, at a minimum, the implementation of provisions for FDNY certified torch operators, fire guards/watch, management of combustible materials, control of sparks, and daily inspection of work areas where hot work is being performed.

In Section 5.16.10, add the following to end of the section:

Where combustible or flammable gases and liquids are to be transported via tower crane, specially designed rigging baskets intended for such transport shall be utilized. Only designated personnel with current certificate of fitness shall be authorized to use combustible or flammable gases and liquids.

In Section 5.16.37, replace the first sentence with the following:

During all burning or other hot work operations, Bovis shall provide: one FDNY-certified fire watch per torch operator on the deconstruction floor; one FDNY-certified fire watch per torch operator on the floor below up to four FDNY-certified fire-watch and a minimum of four FDNY-certified fire watch on the floor below for more than four torch operators as determined by FDNY based on field conditions; and one FDNY-certified fire watch on each of the four floors below that.

In Section 5.16.37, add a new second sentence as follows:

Further, given that the fire rated enclosure of Stairway B begins on the 19th floor, Bovis shall provide one additional FDNY-certified fire watch on the 20th floor during all burning or other hot work operations until all burning or other hot work operations on the 26th floor are complete.

Add a new Section 5.16.40 as follows:

Recordkeeping - a designated Bovis employee at the project will complete an "FDNY Daily Report," which will record (i) standpipe inspection; (ii) FDNY Gang Box maintenance; (iii) fire extinguisher inspections; (iv) the upkeep of all permit logs; and (v) evacuation drills.

Add a new Section 5.21.9 as follows (all subsequent sections are renumbered accordingly):

Access to steel will be from lifts which are fully guarded. Access to steel from above via walking on beams shall not be permitted.

In Section 5.22.13, replace this section in its entirety with the following:

Concrete floor slabs shall be chopped through using remote hydraulic hammers and sent to the floor slab below. A controlled-access zone (CAZ) will be established at least 6 feet away from each leading edge but no more than 25 feet. Within the CAZ, an exclusion zone shall exist within 6 feet of the leading edge. NO personnel shall be allowed within the exclusion zone. Leading edge operations shall be protected from falling into the leading edge by means of operator controls and equipment movement which shall recede from the leading edge. Remote control equipment shall follow a pre-determined pathway, which shall be demarcated on the slab.

Add a new Section 5.25 as follows:

5.25 North Areas Safety Logistics

5.25.1 – The North Area of the site shall be considered an exclusion zone due to overhead loads, heavy equipment movement, and multiple simultaneous operations.

5.25.2 - Only authorized personnel shall enter this area.

5.25.3- The area shall be delineated on the Site Safety Plan and an access gate with signage shall be maintained as the primary point of entry.

5.25.4 - Routes for suspended loads shall be pre-planned to ensure that no personnel are required to work directly below a suspended load. Where this can not be achieved, all personnel in the North Area shall be removed so as loads are not lifted over personnel associated with other operations (e.g., concrete crushing, truck loading, equipment operation, etc.).



5.25.5 - Separate areas shall be designated for both steel and concrete debris placement prior to loading or processing.

5.25.6 – Loads or the tower crane boom shall not cross over the personnel hoist.

5.25.7 – Flagmen shall be utilized to control the flow of heavy equipment, authorized personnel and trucking operations

5.25.8 – All personnel in this area shall wear high visibility vests.

In Section 6.2.5, replace the second sentence with the following:

At least one code compliant (fire-rated) internal means of access/egress shall be maintained at all times using a combination of Stairway A or B. At all times, there will be two means of access/egress which are maintained for the site.

In Section 6.2.12, replace this section in its entirety with the following:

Evacuation drills shall be conducted on a monthly basis. Prior to commencing deconstruction, two evacuation drills shall be conducted. Lessons learned shall be incorporated into subsequent drills.

Add a new Section 6.4.2 as follows:

A regulated secondary means of access/egress for emergency vehicles shall be established and maintained at the corner of Greenwich and Liberty Street for FDNY usage. This road shall be paved with a gate staffed by security personnel.

Add a new Section 6.5 as follows:

6.5 Weather Monitoring & Preparedness

6.5.1 Winds speed shall be monitored via a crane mounted anemometer and at the deconstruction deck level.

6.5.2 Wind speed thresholds shall trigger preventative actions as per the protocol below.

6.5.3 Wind speed shall be defined as a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a wind gust).

6.5.4 Site conditions involving rain, snow, icy conditions and temperature extremes shall be monitored with appropriate control measures implemented.

6.5.5 Work on scaffolding shall be limited or suspended in the event of rain, snow, icy conditions or temperature extremes.

6.5.6 Lifting and rigging operations shall be evaluated during rain, snow, icy conditions and temperature extremes. Where visibility, additional loading, or other conditions that may effect the safe lifting of loads exists, the operation shall be suspended.

6.5.7 Emergency access/egress pathways shall be evaluated during rain, snow and icy conditions to determine corrective actions (i.e., drainage, salting, etc.) and implementation

6.5.8 All operations shall be evaluated during rain, snow, icy conditions, and temperature extremes to determine the extent to which they can safely be performed or continued.

6.5.9 Water used for dust control and fire protection shall be assessed to the extent that it may create icy conditions. Control measures shall be taken to mitigate the hazard of slips, trips and falls due to ice. These measures include placing salt and sand in affected areas and the usage of barriers to restrict travel into such areas.

Readiness Code	Average Wind Speed	Wind Gust Speed	Action Guide	General Guide
Green	Below 14 MPH	19 MPH or below	Monitor site activities.	Normal operations
Yellow	15 MPH or above	20 MPH or below	Evaluate tasks at height	Notify operations of weather watch status
Orange	20 MPH or above	25 MPH or above	Limit lifting operations. Notify deconstruction foreman at top deck level. Suspend scaffold disassembly, scaffold prep operations and plywood installation at perimeter	Check housekeeping, material storage at edge, public exposure, inspect vertical nets.
Red	25 MPH or above	30 MPH or above	Prepare Crane and Hoist for Shutdown Condition. Suspend lifting/lowering of debris containers to ground level.	No Lifting/Lowering via Crane
Black	30 MPH (Sustained) or above	45 MPH or above	Crane Shutdown - evaluate all external operations. Limit hoist operations to emergency mitigation only.	All operations shifted toward adverse weather mitigation efforts.

In section 6.3, modify this section as follows:

Delete Kevin Finnegan and his contact information.

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Your immediate attention and assistance is greatly appreciated.

Regards,

A handwritten signature in black ink, appearing to read "Ray Master".

Ray Master
Bovis Lend Lease LMB