Environmental Health and Safety

Points where EHS partners with Project Managers at each stage of construction and renovation projects

TEHS staff provides written and verbal guidance on safety and environmental best practices, code and regulatory compliance at each stage of projects. Information is transmitted to clients, architects and engineers during meetings.

PREDESIGN PHASE
1. Needs Assessment: client defines project goals
   – Client meeting: PM, Planning
2. Follow-up programming meetings
   – EHS provides safety and environmental requirements for proposed renovations and construction.
3. Code review: proposed use authorized by Code
   – Client meeting: PM and EHS identifies all applicable codes and regulations mandated by proposed building uses including chemical storage limitations in building code.
4. Future space/building plans
   – Client Meeting: Planning and EHS evaluate impact on existing building safety.
5. Cost estimates
   – Client Meeting: PM, EHS provides estimates of permit, code and other regulatory costs.
6. Proposed project schedule
   – Client Meeting: PM, Architect, EHS review schedule and pedestrian and vehicle hazards.
7. Site issues
   – Facilities Services, PM, Architect, EHS
   – Client meeting: EHS and PM seek proposals from firms with master service agreements with Tufts to assess building and site hazmat, provide abatement specifications and industrial hygiene services during construction.
   – EHS and PM seek proposals from remediation firms with master service agreements with Tufts to abate hazmat prior to demolition and construction.
   – EHS administers contracts for these services partnering closely with project managers who are responsible for managing scheduling, payment, access, etc.
8. Community concerns
   – Client meeting: EHS evaluates impact of hazardous equipment and materials on community.
9. Building technology
Client meeting: EHS provides advice on safety and environmental sustainability initiatives; air emissions, waste emissions, water use, hazmat in new building systems.

A. DESIGN PHASE
1. Schematic design drawings
2. Planning reviews conceptual drawings
3. Design Development
   – Selection of engineers to design building systems: civil, mechanical, plumbing, electrical, structural, fire protection.
   – EHS meets with engineers to identify critical safety and environmental control systems and code and regulatory requirements.
   – Draft drawings and draft specification manual
   – EHS reviews specification manual to ensure that all applicable regulations and codes are listed. EHS reviews plans to ensure that critical safety and environmental control systems clearly specified per agreement with engineers.
4. Finalize design with Construction Documents
   – EHS reviews abatement specifications and scope to ensure consistency with identified hazmat.

B. CONSTRUCTION PHASE
1. Selection of general contractor and subcontractors
   – EHS and PM coordinate building hazmat abatement with firm selected during predesign and general contractor.
2. Site preparation; demolition of existing structures
   – EHS provides list of approved building demolition services contractors with acceptable safety and environmental record and reviews submitted qualifications.
   – EHS reviews disposal sites for soil and debris removed from demolition site.
3. Initiate construction
   – EHS and PM schedule and supervise hazmat abatement and industrial hygiene services during construction with firms selected during predesign.
   – EHS provides periodic field reports to audit completion of safety and environmental compliance tasks.
4. Generate punch lists of unacceptable conditions
5. Completion of construction

C. COMMISSIONING AND POST CONSTRUCTION PHASE
1. Commissioning of building systems
—EHS monitors commissioning agents for hazard control systems.

2. Completion of punch list

3. Building occupancy

4. Building turned over to maintenance for operation

5. Maintenance worker training by engineers and contractors
   —EHS attend training on safety and environmental control systems e.g. wastewater treatment systems, air cleaning and pollutant control system.