Post-Tension Concrete Structures

Brandenburg®
Shoring is typically used on all floors as the work proceeds. The purpose of shoring is to increase the live load capacity on the deck that is currently being worked on and to give the structure additional support. As each floor is demolished, shoring is removed.

Depending on the circumstances, additional barrier protection is installed around the structure’s exterior and near post-tension anchorage locations. These barriers shield adjacent structures, pedestrian and vehicular traffic, and other various live operations.

The physical demolition of the structure begins with the interior and the roof being completely gutted of all combustible and non-recyclable materials. All material is segregated and removed from the structure using the existing elevator shaft or installed chute systems. After the structure has been gutted, each floor slab is typically removed by skid steer loaders using hydraulic and impact hammers. The tension from the cables is released and can be cut with hydraulic shears or torches. Upon completion of each floor slab, equipment is lowered to the next floor and the perimeter walls are removed by pulling them in toward the floor. All debris generated by this work is continuously segregated and moved to the chute area. Materials are then processed on ground level by hydraulic excavators equipped with magnets and concrete processors. Processed materials are sent to recycling facilities, with the exception of non-recyclable combustible materials.

Brandenburg continuously implements fall control measures as hazards are created by the modified structure. Fall protection is achieved by handrail, protective cables, floor-hole coverings, labeling, and continuous safety supervision and training.