



MEMORANDUM

SEND TO:	FROM: Anatoly Gregor, PE
COPY TO:	RE: MMC Brighton Phasing

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PLANNING
ARCHITECTURE
ENGINEERING
CONSTRUCTION

Preliminary Phasing

Phase I

- Cut existing louver and damper to Room B006 for temporary generator cabling and conduits associated with work in other phases of this project. Coordinate conduit routing with Mechanical Contractor to accommodate mechanical equipment planned in Room B006.
- Provide 500KW temporary generator connected to existing Panel DPE in Room B006 during relocation of 450KW generator radiator to grade.
- Provide temporary start circuits from existing ATS#1, ATS#2, and ATS#3 in Room B006 to temporary generator.

Phase II(Normal Power)

- Install new normal service board concrete pad in new Electrical Service Room(existing Woodshop)..
- Install new normal service board N4MDP.
- Install new branch feeders from N4MDP to existing panel PP4E in Room and panel PP in Boiler Room
- Install new branch feeders from N4MDP to new splice boxes above existing Normal Service No. 1 switchgear and existing X-Ray Distribution board in Room B005E.
- **PROVIDE TEMP GENERATOR? OWNER TO DECIDE BASED ON OUTAGE LENGTH.**
- Open M.V. switch serving existing pad mounted transformer.
- Remove existing pad mount transformer secondary cables.
- Cutback and extend existing pad mount transformer secondary conduits to main breaker section of N4MDP.
- Install new secondary feeders from transformer to main breaker in N4MDP.
- Demolish existing Normal Service No. 1 switchgear in Room B005E.
- Install new floor mounted splice boxes for feeders to XXXXX in Room B005E.

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- Cutover other existing normal loads to remain to N4MDP.
- Demolish existing X-Ray Distribution board in Room B005E.
- Existing concrete pad under X-Ray Distribution board to remain. All conduits from slab shall be cut back and patched with concrete as required.
- Refeed normal side of existing ATS#1(Critical Branch) in Room B006.
- Refeed normal side of existing ATS#2(Life Safety Branch) in Room B006.
- Install normal feed to new ATS-EQ#1 in Room B005E.
- Existing concrete pad under Normal Service No. 1 switchgear in Room B005E to remain and be extended to wall on front side of the existing switchgear. All unused conduits from slab shall be cut back and patched with concrete as required.

Phase II(Emergency Power)

- Provide 500KW temporary generator connected to existing Panel DME. Existing emergency distribution DME in Generator #2 room to remain in place during 800KW generator installation.
- Demolish existing 500KW generator in Generator #2 room.
- Demolish existing Load Bank & Trailer connection panel in Generator #2 room.
- Modify existing 500KW generator pad as required to accommodate new 800KW generator. (Cutback and patch any unused existing conduits in slab)
- Install new 800KW generator in Generator #2 Room. (Note: Control Panel and main breaker to be shipped loose and field installed)
- Install new concrete housekeeping pad for new emergency distribution board E4MDP in Room B006.
- Install new emergency distribution board E4MDP in Room B006. (Note: New door between B005E and B006 required before energizing E4MDP)
- Install new 800A ATS-EQ#1 and panel EQ4DP in Room B005E.
- Install emergency feed to new ATS-EQ#1 in Room B005E.
- Provide new splice boxes at existing panels EDP-1, EDP-2 and EDP-3 and install new conduits with feeders to new panel EQ4DP
- Cutover existing emergency loads from EDP-1, EDP-2 and EDP-3 to new panel EQ4DP.

Phase III

- Demolish existing 450KW generator.
- Demolish existing 450KW generator pad, patch floor as required.
- Install new concrete housekeeping pads for new ATS-CR#1 and ATS-LS#1 in Room B006.
- Install new ATS-CR#1, ATS-LS#1, Panel CR4DP and Panel LS4DP.
- Provide new splice box at ATS#1 location in Room B006.
- Cutover emergency loads to new Panel CR4DP and Panel LS4DP.

Phase IV

- Install new ductbank and MV feeders from manhole to new MV switchgear location (CMP QUESTION).
- Install new MV switchgear on existing extended pad formerly serving Normal Service No. 1 switchgear.
- Extend existing spare 4" RGS conduit from exterior wall to new MV feeder breaker serving Main Dist. Switchboard (AKA MDB) in room G178.
- Install new MV feeder to Main Dist. Switchboard (AKA MDB) in room G178.
- Run new MV feeders to existing pad mounted transformer.(WIRING INSPECTOR QUESTION)
- Energize new MV switchgear one feeder at a time.(CMP QUESTION)
- Cutover Main Dist. Switchboard (AKA MDB) and Pad Mounted Transformer to new MV Feeder Switches.
- Demolish existing MV cable to Main Dist. Switchboard (AKA MDB).
- Extend second 4" RGS conduit (spare) from exterior wall to new MV feeder breaker serving Main Dist. Switchboard (AKA MDB).
- Demolish existing MV Switches, metering and concrete pad.
- Patch floor as required.