

TABLE 3.7-7

## AUXILIARY BUILDING GROUNDWATER LEVEL MONITORS

| LOCATION  | INTERIOR/<br>EXTERIOR ELEVATION | UNIT  |
|-----------|---------------------------------|-------|
|           | (Feet - Mean Sea Level)         |       |
| PP51      | Interior 731' - 0"              | 1     |
| QQ56      | Interior 731' - 0"              | 1 & 2 |
| PP-61     | Interior 731' - 0"              | 2     |
| West Wall | Exterior 731' - 0"              | 1     |
| East Wall | Exterior 731' - 0"              | 2     |

## PLANT SYSTEMS

### BASES

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#### 3/4.7.13 GROUNDWATER LEVEL

This Technical Specification is provided to ensure that groundwater levels will be monitored and prevented from rising to the potential failure limit for the McGuire Units 1 and 2 Auxiliary Buildings. This potential failure limit is based on engineering calculations that have determined that the Auxiliary Buildings are susceptible to overturning due to buoyancy at elevation 737 feet Mean Sea Level (MSL). Under the requirements of this Technical Specification, if groundwater level exceeds elevation 731 feet MSL, (3 out of 5 Tech Spec groundwater monitor alarms), and cannot be reduced in one (1) hour, McGuire must begin reducing Units 1 and 2 to Mode 5, Cold Shutdown.

Analysis performed by Design Engineering determined that the Reactor and Diesel Generator Buildings are designed to withstand hydrostatic loadings due to groundwater levels up to elevation 760 feet MSL; therefore, no Technical Specification requirements are specified for these structures.

Elevation 731 feet MSL is the Technical Specification action level of the five Technical Specification groundwater monitors listed in Table 3.7-7. The East Wall exterior monitor alarm at elevation 731 feet MSL is the Alert alarm due to the groundwater well being bored to a depth of 730 feet MSL because of underground rock formation below the well. The other four (4) monitors are Hi-Hi alarms at elevation 731 feet (MSL).

The East Wall exterior monitor was originally on the exterior of the Unit 2 Auxiliary Building and subsequently was enclosed by the construction of the Equipment Staging Building.

As required by Operations procedures, any alarms on non-Technical Specification groundwater monitors will also be investigated. Additionally, if three (3) out of the five (5) Technical Specification groundwater monitors alarm at levels below the Technical Specification action levels, Operations will contact Duke Design Engineering (Civil) for investigation and resolution of the increased groundwater level.

If one or more of the 5 Technical Specification groundwater monitors is determined to be inoperable, the monitor(s) will be considered to be indicating above the 731'-0" level until repaired and returned to an operable status.