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AUTOMATED RECORD MANAGEMENT  
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10/15/98

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TECHNICAL REQUIREMENTS MANUAL, VOLUME 1

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## Technical Requirements Manual

Volume I

Detroit  
Edison

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TRM - TABLE 3.3.3-3  
 (UFSAR TABLE - 7.3-11)  
EMERGENCY CORE COOLING SYSTEM RESPONSE TIMES

<u>TRIP FUNCTION</u>	<u>RESPONSE TIME (Seconds)</u>
<u>1. CORE SPRAY SYSTEM</u>	
a. Reactor Vessel Low Water Level - Level 1	≤ 30**
b. Drywell Pressure - High	≤ 30**
c. Reactor Steam Dome Pressure - Low	NA*
d. Manual Initiation	NA
<u>2. LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM</u>	
a. Reactor Vessel Low Water Level - Level 1	≤ 72**
b. Drywell Pressure - High	≤ 72**
c. Reactor Steam Dome Pressure - Low	NA*
d. Reactor Vessel Low Water Level - Level 2	NA
e. Reactor Steam Dome Pressure - Low	NA
f. Riser Differential Pressure - High	NA
g. Recirculation Pump Differential Pressure - High	NA
h. Manual Initiation	NA
<u>3. HIGH PRESSURE COOLANT INJECTION SYSTEM</u>	
a. Reactor Vessel Low Water Level - Level 2	≤ 30**
b. Drywell Pressure - High	NA
c. Condensate Storage Tank Level - Low	NA
d. Reactor Vessel Water Level - High, Level 8	NA
e. Suppression Pool Water Level - High	NA
f. Manual Initiation	NA
<u>4. AUTOMATIC DEPRESSURIZATION SYSTEM</u>	
a. Reactor Vessel Low Water Level - Level 1	NA
b. Drywell Pressure - High	NA
c. ADS Timer	NA
d. Core Spray Pump Discharge Pressure - High	NA
e. RHR LPCI Mode Pump Discharge Pressure - High	NA
f. Reactor Vessel Low Water Level - Level 3	NA
g. Manual Initiation	NA
h. Drywell Pressure - High Bypass Timer	NA
i. Manual Inhibit	NA
<u>5. LOSS OF POWER</u>	
a. 4.16 kV Emergency Bus Undervoltage (Loss of Voltage)	NA
b. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage)	NA

\* These are permissive signals only. They do not activate ECCS initiation.

\*\* ECCS actuation instrumentation response time need not be measured and may be assumed to be the design instrumentation response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.