

# **Dunn Brothers Fire Suppression & Water Management Flowchart**

## **1. Fault Detection**

System: FORADE Fire Detection System

- Monitors facility continuously.
- Trigger: Detects fault, heat, smoke, or flame signature.  
→ Initiates fire response protocol.

## **2. Fire Suppression Activated**

System: Automated Water/Fire Suppressant Cannons

- Cannons activated in affected zone.
- Targeted suppression to control flames.  
→ Prevents spread and mitigates heat zones.

## **3. Water Recapture System Prepped**

System:

- Sluice Gates open.
- Recapture Sump Pumps engaged.  
→ Prepares to collect runoff for environmental safety and analysis.

## **4. Stakeholder Notification Sent**

System: Automated Communication

- Sends Email & SMS alerts to:
  - Stakeholders
  - Monitoring Company  
→ Ensures immediate awareness and response coordination.

## **5. Emergency Access Enabled**

System: Access Control Integration

- Automatic Door Release triggered.  
→ Allows Fire Brigade & First Responders access to facility.

## **6. Containment and Water Testing Prep**

System: Water & Fire Control Systems

- Fire is contained to designated sectors.
- Captured runoff water is retained for environmental and chemical analysis.  
→ Ensures compliance and post-incident review.

## **7. Post-Incident Analysis & Risk Mitigation**

System: Surveillance & Planning

- Recorded video reviewed.
- Incident report compiled.
- Corrective action plan implemented to reduce future risk.  
→ Supports safety improvements and regulatory compliance.