An overview of Global Warehouse Configurations and Challenges
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Presented by:

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Contributing Factors
OVERALL SIZE

How many football fields?
Approximately 1.4 million sq ft or 130,000 sq m
OVERALL HEIGHT

HIGH Bay = 46 m (150ft)
LOW Bay = 36 m (120ft)
Mixed Arrangements
Metal Halide Lighting
Skylights
Venting
COMMODITY
SPRINKLER PROTECTION

- Properly protected?
- What code?
  - Local
  - Country
  - NFPA
  - FM
  - Other
Water Supply

- Availability
- Duration
- Refill capacity
Location of the fire
Fire Response Plan

- Education of sprinklered warehouses
- When to turn off water
### Water Supply Test Results and Three Largest Sprinkler Demands

<table>
<thead>
<tr>
<th>Area Protected</th>
<th>Design Density or Head Pressure</th>
<th>Opr. Area or # of Heads</th>
<th>Flow - w/o hose (gpm)</th>
<th>Flow - w/o hose (l/min)</th>
<th>Pres. At Pump*</th>
<th>Hose Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse 5</td>
<td>#VALUE!</td>
<td>30</td>
<td>2.7</td>
<td>1650</td>
<td>116</td>
<td>8.0</td>
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<td>118</td>
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* If no pump, record pressure at water source

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**Flow upon arrival and at 10 minute increments for up to X hours after arrival. No hose water applied.**
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<td>7.7</td>
<td>950</td>
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</tbody>
</table>

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Other items

- Construction
  - Walls
  - Roofs
- Safety netting
- Access walkways
- Stacker cranes
Thank you!

Questions?
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