



Operational Excellence Services

Health · Safety · Environment
(HSE)

Escape Simulation & Assessment



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Access to Our Homepage

<https://www.jgc.com/en/business/epc/operation-maintenance/service/>

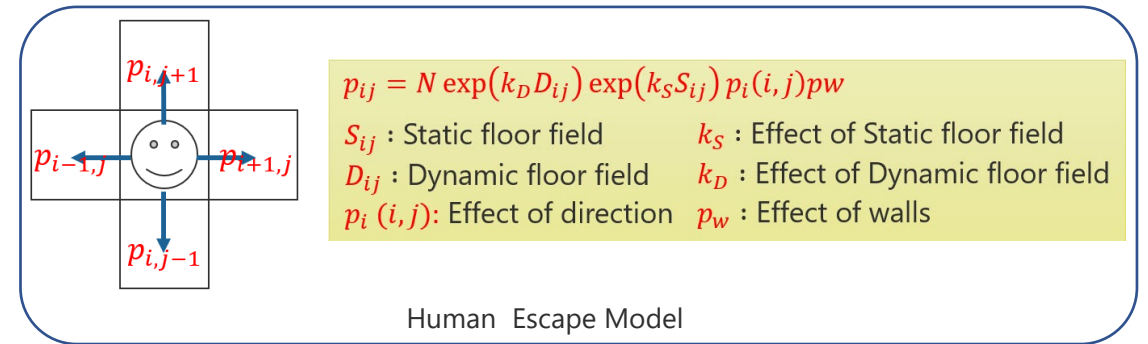
Escape Simulation and Assessment

Do you have any of these issues?

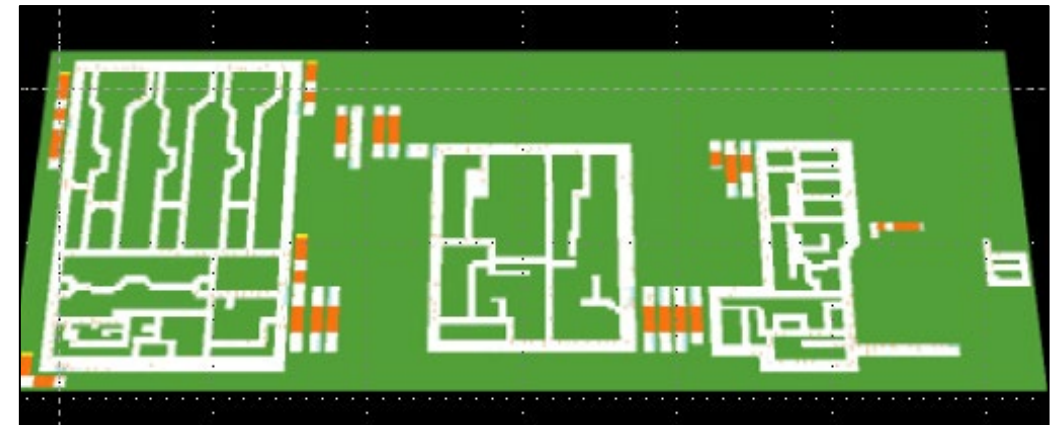
- ☹️ **Insufficient escape and evacuation plans**
- ☹️ **Maintenance plan without safety consideration**
- ☹️ **Many modification in the facility**

Escape Simulation and Assessment Solutions

- Evaluation of current escape route by specialized escape route simulation program.
- Identification of critical point (bottle-neck) in escape route plan
- Provide improvement plan of escape route
- Escape simulation in accidental scenario
- Provide safe maintenance plan (location of maintenance, number of maintenance person, barricade plan in maintenance period)



+ Characteristics of Plant Facility



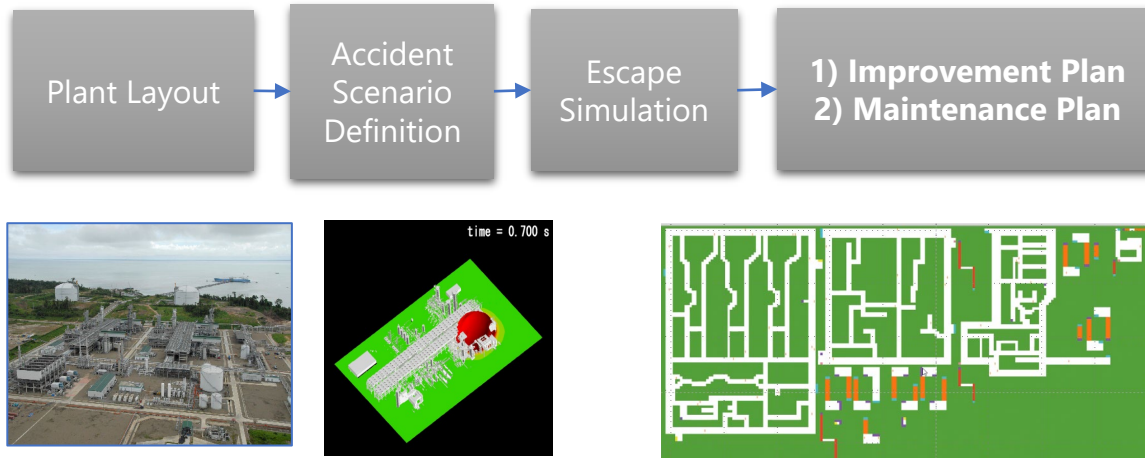
Specialized Plant Escape Route Simulation Program
(developed with the University of Tokyo)

Escape Simulation and Assessment

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HSE menu



Workflow & Result



OUTPUTS

- 1) Improvement Plan**
 - ✓ Modification plan of escape route to enhance safety for operators in normal situation and accidental situation
- 2) Maintenance Plan considering safe operator escape**
 - ✓ Maintenance activities in same location
 - ✓ Number of maintenance person
 - ✓ Barricade plan

Our Strengths

- Professional Safety, Operation and Maintenance Teams
 - Top global experiences of escape route design and evacuation planning from EPC execution
- Plant type** - Refinery, Gas Processing, LNG, Chemical
- Plant location** – Onshore, Offshore
- Client** – IOCs, NOCs
- Specialized escape simulation program developed with the University of Tokyo. Research Article is available in “Chemical Engineering Transactions (CET) Journal Vol 90(2022)”

Our Experiment

**Plant and Escape Route
Design Cases**

500+ Cases