



Operational Excellence Services

**Health · Safety · Environment
(HSE)**

Escape Simulation and Assessment



Contact Us

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Access to Our Homepage

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

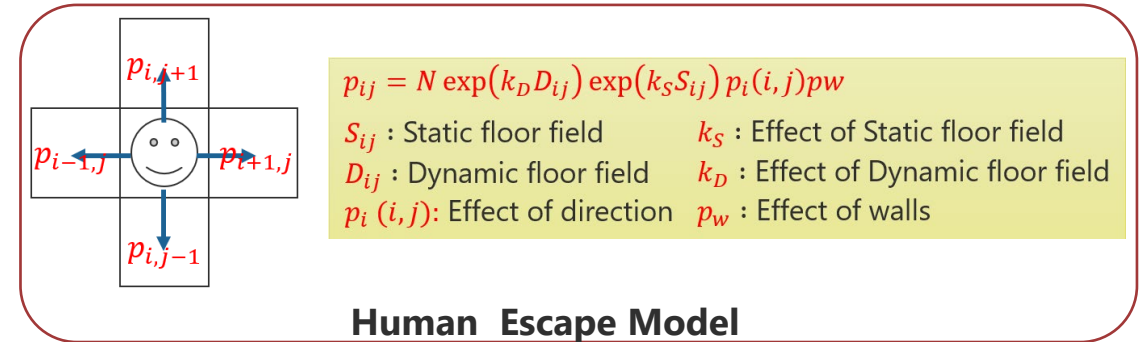
Escape Simulation and Assessment

Do you have any of these issues?

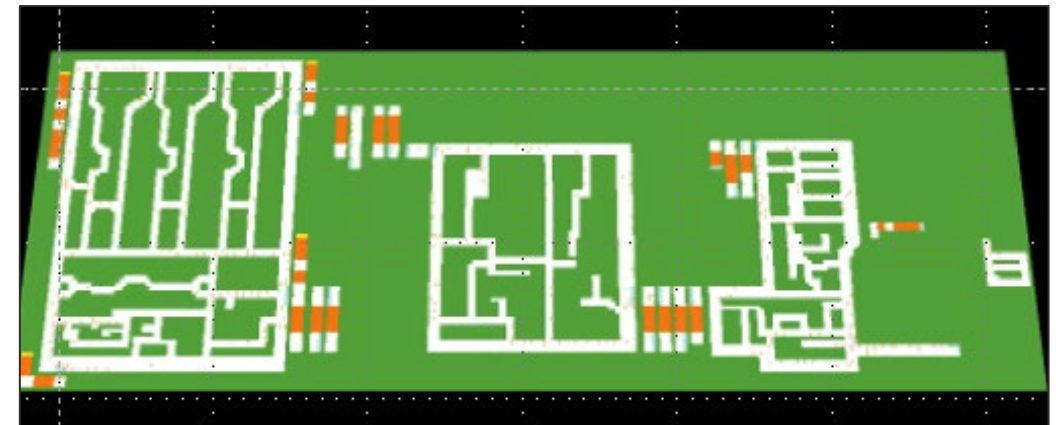
- ☹️ **Insufficient escape and evacuation plans**
- ☹️ **Maintenance plan without safety consideration**
- ☹️ **Many modification in the facility**

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 persons, barricade plan in maintenance period)



+Characteristics of Plant Facility



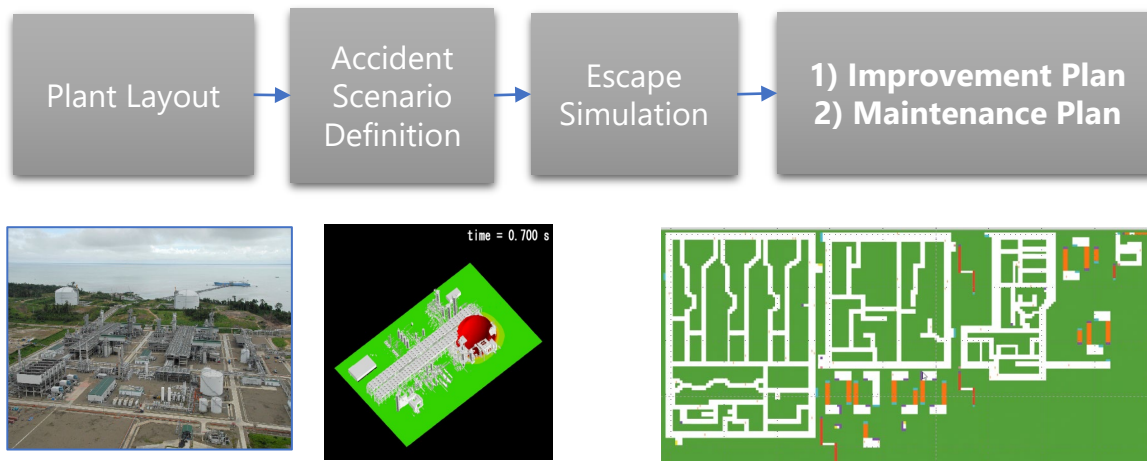
Specialized Plant Escape Route Simulation Program
(developed with the University of Tokyo)

Escape Simulation and Assessment

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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 Experiences

**Plant and Escape Route
Design Cases**

500+ Cases