FINITE ELEMENT ANALYSIS (FEA) INQUIRY FORM

CONTACT INFORMATION

Name

Email

Company | Date | Phone

PROJECT PARAMETERS

Objective of study

Project name

Project location

Minimum ambient temperature

Snowfall rate

Ice formation rate

Maximum wind velocity

Climate (tropical /arctic/etc.)

Maximum ambient temperature

Other applicable conditions if any

DESIGN PARAMETERS

Maintain temperature

Minimum flow rate

Maximum exposure temperature (Power off)

Minimum allowable product temperature

Normal/process/ flow operating temperatures

Maximum flow rate

Flow inlet temperatures

Maximum allowable product temperature

MODEL SPECIFICATIONS AND MATERIAL PROPERTIES

Model geometry and detailed dimensions

Provide associated drawings/sketches and description, such as piping/equipment isometric drawings, EHT isometric drawing, etc.

Provide calculation sheet if applicable, such as TCPro calculation, SlabHeat calculation, etc.

Material Thermal Properties with proper units for each material

Density | Thermal conductivity | Specific heat

POWER SUPPLY DATA

Power output

FLUID PROPERTIES HEAT-UP, MELT-OUT, OR COOL-DOWN DATA

Fluid name | Start temperature | Cool-down time limit

Specific heat | Heat-up time required | Density vapor

Density solid | Density liquid | Boiling point

Heat of fusion | Heat of vaporization

Melting point | Final temperature

Flowing fluid?

○ Yes ○ No

If yes, define parameters for dynamic analysis (flow rate, viscosity of the fluid and units)

ADDITIONAL INFORMATION

North America
Tel +1.800.545.6258
Fax +1.800.527.5703
info@nvent.com

Europe, Middle East, Africa
Tel +32.16.213.511
Fax +32.16.213.603
info@nvent.com

Asia Pacific
Tel +86.21.2412.1688
Fax +86.21.5426.3167
cn.info@nvent.com

Latin America
Tel +1.713.868.4800
Fax +1.713.868.2333
info@nvent.com

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