

# Using Element Reporting

Create one or more *Element Reporting* entities to define TMG report file output. The TMG report file *REPF* is created during the analysis.

Using standard selection techniques, you can specify different elements for each Element Reporting entity you create. The printout may be for all elements in the model or for selected elements. Output occurs at the end of the analysis and at the Printout Interval specified on *Transient Analysis Parameters* for transient analysis.

[Locate the icon.](#)

## Output Data

In general, the specified data will be provided for the selected elements. Below find additional information about specific options.

- With the *Absorbed Heat* option, the net heat flow into each selected element since the beginning of a transient simulation is reported.
- The *View Factor* options reports view factors from each selected element to every other element are reported.
- For the *Element Heat Balance* type, a comprehensive diagnostic report is generated for each selected element. For thermal model elements, this consists of a list of all attached conductances, the labels and temperatures of the connected elements, the heat flowing through each conductance, and the overall heat balance for the element. For fluid elements, the output also consists of a complete report of the flow model data, including flow resistances, velocity, Reynold's Number, static, dynamic, and total pressure, density, mass flow, buoyancy force, etc.

Use restraint in selecting elements for this option, particularly for transient runs, since the quantity of data generated can be large.

- The *Group to Group Flow* option summarizes heat flow from one group to another, broken down by type of heat transfer.

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