

Element data

Type of element & part number: _____	Number of elements _____
Element loading: _____	Power per element, kW: _____
Element temperature: _____	Hot Zone (Le) Length _____
Element dimension: _____	Cold End (Lu) Length: _____
Element Spacing (Centerline to Centerline) _____	Element spacing from chamber walls: _____
Type of element holders used: _____	Bent terminals?: _____
Sealed terminal lead throughs?: _____	Air cooled lead throughs? _____

Connections and Installation

What orientation are the elements installed in? (Normally vertical but can be horizontal resting on tile/supports, etc.) _____

How are the elements supported? (where applicable): _____

Are passage plugs/ terminal tubes/ lead-in bricks being used? _____

Are the terminal holes parallel with each other or made in some other way? _____

Are the terminal holes free of debris? (any signs of condensates in the holes?) _____

Are the element terminals being packed around with fiber at the ends where they pass through the refractories? _____

Are the elements still able to move freely in both linear and radial directions? (important for thermal expansion/contraction) _____

Is there sufficient slack in the length of the aluminum straps so as to not transfer stress to the elements? _____

Are there any signs of residues on the element hot zones?

Are there any signs of residues on the element cold ends? _____

If yes, do you know/what do you think the residues are? _____

Are all elements operating in the same environment? (usually yes, but if some elements are in a gas stream, while others are not, then the conditions between one element and another may be different. If no, please explain) _____

Are the element tapers all within the heating chamber and not back inside the insulation? _____

Are the aluminum braids showing signs of oxidation, arcing or heating up? _____

Are the connection clamps loose on the ends of the elements? _____

How are the elements connected in each control group?
(Please describe and/or send a sketch or connection schematic) _____

Element Radiant Protection Tube Data (where applicable)

Tube material _____ Tube dimensions (mm): _____

Type(Straight,U, W, Inner) _____ Tube length (mm): _____

Tube orientation (Hor./Vert.) _____ Tube loading, W/cm²: _____

Number of tubes: _____ Net power per tube, kW: _____

Note: please describe the issue being experienced as thoroughly as possible. Use separate sheets to provide additional info/ when there is insufficient space on this form. Please send photos and provide as much information as possible about the process. When complete, please email this form, photos, and additional info to: sales@isquaredrelement.com