

Date: \_\_\_\_\_

### Nuclear Interface Profile – Multi-Point Density Array

Company Name:	Customer Contact Name:
Customer Address:	Phone and Fax:
City, State, Zip:	Cell Phone:
Sales Person/Rep:	Email:
Representative Firm:	Tag Number:



#### Process Material

- Description/Name: \_\_\_\_\_
- Density ranges:  SG  kg/m<sup>3</sup>  lb/ft<sup>3</sup>  
 (Lowest) Phase 1: Low: \_\_\_\_\_ High: \_\_\_\_\_  
 Phase 2: Low: \_\_\_\_\_ High: \_\_\_\_\_  
 Phase 3: Low: \_\_\_\_\_ High: \_\_\_\_\_  
 Phase 4: Low: \_\_\_\_\_ High: \_\_\_\_\_
- Process temp.: Max: \_\_\_\_\_ Operating: \_\_\_\_\_  
 °F  °C
- Process pressure: Max: \_\_\_\_\_ Operating: \_\_\_\_\_  
 psig  bar
- Do any of the above parameters change during operation?  
 Yes\*  No  
 \*If yes, which parameter(s) and what are their ranges?  
 \_\_\_\_\_
- Process buildup on vessel wall:  Yes\*  No  
 \*If yes, how much: \_\_\_\_\_  in  mm

#### Drywell

- Drywell:  Customer supplied  VEGA supplied  
 Pipe size \_\_\_\_\_ Schedule \_\_\_\_\_
- Drywell Material Requirements:  
 Stainless Steel  Other \_\_\_\_\_
- Piping standard: \_\_\_\_\_
- Includes:  Radiograph welds  Hydrostatic test  
 Liquid penetrant welds  Other
- Vessel design pressure: \_\_\_\_\_  psi  bar
- Vessel design temperature: \_\_\_\_\_  °F  °C
- Vessel nozzle for mounting (Provide vessel drawing)  
 Nozzle(s) available Identify available nozzle(s) \_\_\_\_\_  
 New nozzle added if required:  Yes  No

#### Vessel (Please provide vessel drawing)

- New or existing vessel?  New  Existing  
 Shape of vessel:      
 Other: Please sketch
- Vessel ID: \_\_\_\_\_  in  mm
- Vessel material: \_\_\_\_\_  
 Wall thickness in measurement area: \_\_\_\_\_
- Vessel insulation:  Yes  No  
 Material thickness: \_\_\_\_\_  
 Material and density: \_\_\_\_\_
- Vessel jacket:  Yes\*  No  
 \*If yes, describe: \_\_\_\_\_
- Vessel internal obstructions:  Yes\*  No  
 \*If yes, describe: \_\_\_\_\_
- Height of process levels (from vessel bottom):  in  mm  
 (Lowest) Phase 1: Min: \_\_\_\_\_ Max: \_\_\_\_\_  
 Phase 2: Min: \_\_\_\_\_ Max: \_\_\_\_\_  
 Phase 3: Min: \_\_\_\_\_ Max: \_\_\_\_\_  
 Phase 4: Min: \_\_\_\_\_ Max: \_\_\_\_\_
- Measurement span from lowest measurement point to highest measurement point: \_\_\_\_\_  
 See diagram point "A"  in  mm
- Lowest measurement point elevation (from vessel bottom):  
 See diagram point "B" \_\_\_\_\_  in  mm
- Number of desired density measurements within span:  
 See diagram point "C" \_\_\_\_\_
- Vessel height clearance restriction:  Yes\*  No  
 See diagram point "D"  
 \*If yes, height: \_\_\_\_\_  in  mm

## Electronics

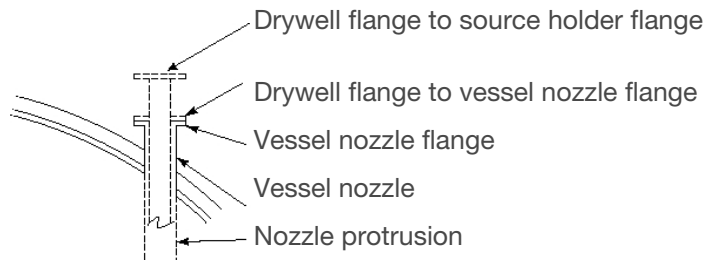
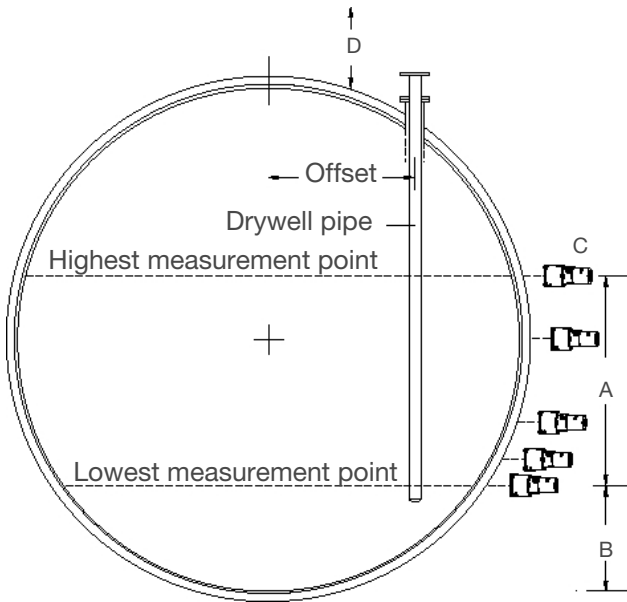
15. Area classification: \_\_\_\_\_ (Class/Zone/Division)     General Purpose
16. Ambient temperature range:    Min: \_\_\_\_\_    Max: \_\_\_\_\_     °F     °C     Indoors     Outdoors
17. Input power:     110 VAC     220 VAC     24V DC
18. Display:     Remote User Interface Display     Integral     None

## Radiation Specification

19. Will the detector be exposed to external X-ray radiation during operation?     Yes     No
20. Does the customer have a license to possess/use radioactive material?     Yes     No
21. Does the customer facility have a plant standard radiation specification (5mr@12 in Standard)?     Yes\*     No    \*If yes: \_\_\_\_\_  mR     μSV  
@ \_\_\_\_\_  in     mm
22. Are there potential external obstructions in the detector mounting area?     Yes\*     No  
\*If yes, describe: \_\_\_\_\_

23. Rank the following by importance (1-4 Highest to Lowest):  
 Best Density Resolution \_\_\_\_\_    Fast Response Time \_\_\_\_\_    Low Radiation \_\_\_\_\_    Low Price \_\_\_\_\_

## Diagrams



Nozzle flange size: \_\_\_\_\_ Flange rating: \_\_\_\_\_  
 Nozzle height: \_\_\_\_\_ Nozzle ID: \_\_\_\_\_  
 Nozzle protrusion:     Yes\*     No  
 \*If yes, depth: \_\_\_\_\_  
 Nozzle offset from center line: \_\_\_\_\_  in     mm

Please use this diagram to answer questions 9-12 on page 1.

- A. Measurement span
- B. Elevation from bottom of vessel
- C. Number of sensors
- D. Vessel height clearance restriction:

## Additional Information

41048-US-130408