Application Data Sheet | Date: _____

Radiometric Interface Profile – Multi-Point Density Array

Company Name: _____ Customer Contact Name: _____

Customer Address: _____ Phone and Fax: _____

City, State, Zip: _____ Cell: _____

Sales Person/Rep.: _____ Email: _____

Representative Firm: _____ Tag Number: _____

Process Material

1. Description/Name: _____

2. Density ranges: ○ SG ○ kg/m³ ○ lb/ft³
   Phase 1: Low: _____ High: _____
   Phase 2: Low: _____ High: _____
   Example: *Oil @ 700 kg/m³*
   Water @ 990 kg/m³

3. Process temp.: Max: _____ Operating: _____
   ○ °F ○ °C

4. Process pressure: Max: _____ Operating: _____
   ○ psig ○ bar

5. Do any of the above parameters change during operation?
   ○ Yes* ○ No
   **If yes, which parameter(s) and what are their ranges?* _____

6. Process buildup on vessel wall: ○ Yes* ○ No
   **If yes, how much:* _____ ○ in ○ mm

Drywell

7. Drywell: ○ Customer supplied ○ VEGA supplied
   Pipe size _____ Schedule _____

   a. Drywell Material Requirements:
   ○ Stainless Steel ○ Other _____

   b. Piping standard: _____

   c. Includes: ☐ Radiograph welds ☐ Hydrostatic test
   ☐ Liquid penetrant welds ☐ Other

   d. Vessel design pressure: _____ ○ psi ○ bar

   e. Vessel design temperature: _____ ○ °F ○ °C

6. 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)

9. New or existing vessel? ○ New ○ Existing

   Shape of vessel: ○  ○ 
   ○ Other: Please sketch

   Vessel liner material: _____
   Example: Gunnite

   a. Vessel ID: _____ ○ in ○ mm

   b. Vessel Material: _____
   Wall thickness in measurement area: _____

   c. Vessel insulation: ○ Yes ○ No
   Material thickness: _____
   Material and density: _____

   d. Vessel jacket: ○ Yes* ○ No
   **If yes, describe:* _____

   e. Vessel internal obstructions: ○ Yes* ○ No
   **If yes, describe:* _____

10. Height of process levels (from vessel bottom): ○ in ○ mm
    HIL: _____
    NIL: _____
    LIL: _____

11. Measurement span from lowest measurement point to highest measurement point:
    See diagram point "A" _____ ○ in ○ mm

12. Lowest measurement point elevation (from vessel bottom):
    See diagram point "B" _____ ○ in ○ mm

13. Number of desired density measurements within span:
    See diagram point "C" _____

14. Vessel height clearance restriction: ○ Yes* ○ No
    See diagram point "D"
    **If yes, height:* _____ ○ in ○ mm

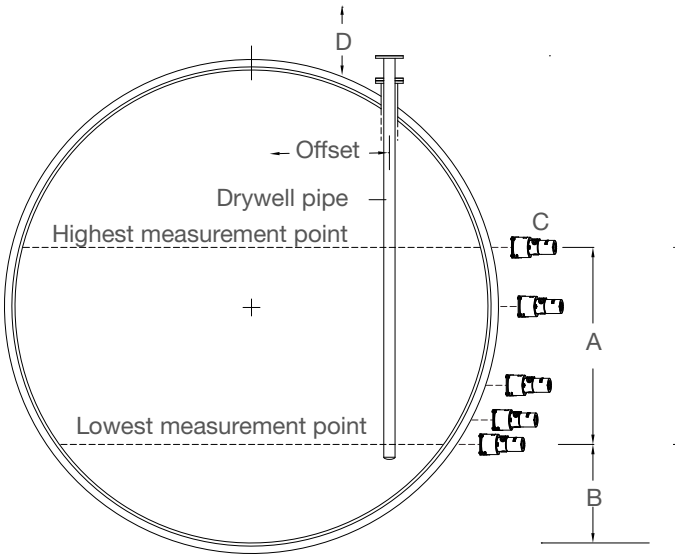
Electronics

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

Radiation Specification

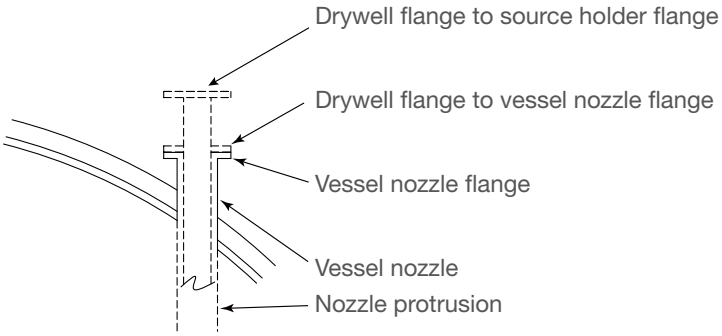
19. Will the detector be exposed to external X-ray radiation during operation? ○ Yes ○ No
20. Does the customer have a license to possess/use radioactive material? ○ Yes ○ No
21. Does the customer facility have a plant standard radiation specification (5mr@12 in Standard)? ○ Yes ○ No
    *If yes: _____ ○ 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



Please use this diagram to answer questions 11-14 on page 1.

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



Nozzle flange size: _____ Flange rating: _____
External projection: _____ Nozzle ID: _____
Nozzle protrusion: ○ Yes* ○ No
*If yes, depth: _____
Nozzle offset from center line: _____ ○ in ○ mm

Additional Information

93850-US-260211

Please provide a current copy of your current radioactive materials license, if available.

FOR INFORMATION ONLY

PLEASE FILL IN VALUES FOR ITEMS (a), (b), (c), (d) AND RETURN TO SALES REPRESENTATIVE

(a) HIGH INTERFACE LEVEL (HIL)?

NORMAL INTERFACE LEVEL (NIL)?

LOW INTERFACE LEVEL (LIL)?

(b) MEASUREMENT SPAN?

(c) NO. OF MEASUREMENT POINTS?

(d) AVAILABLE NOZZLES?

NOTES:

1) EXISTING NOZZLE USED MAY BE ON OR OFF VESSEL CENTERLINE OR NEW NOZZLE MAY BE ADDED

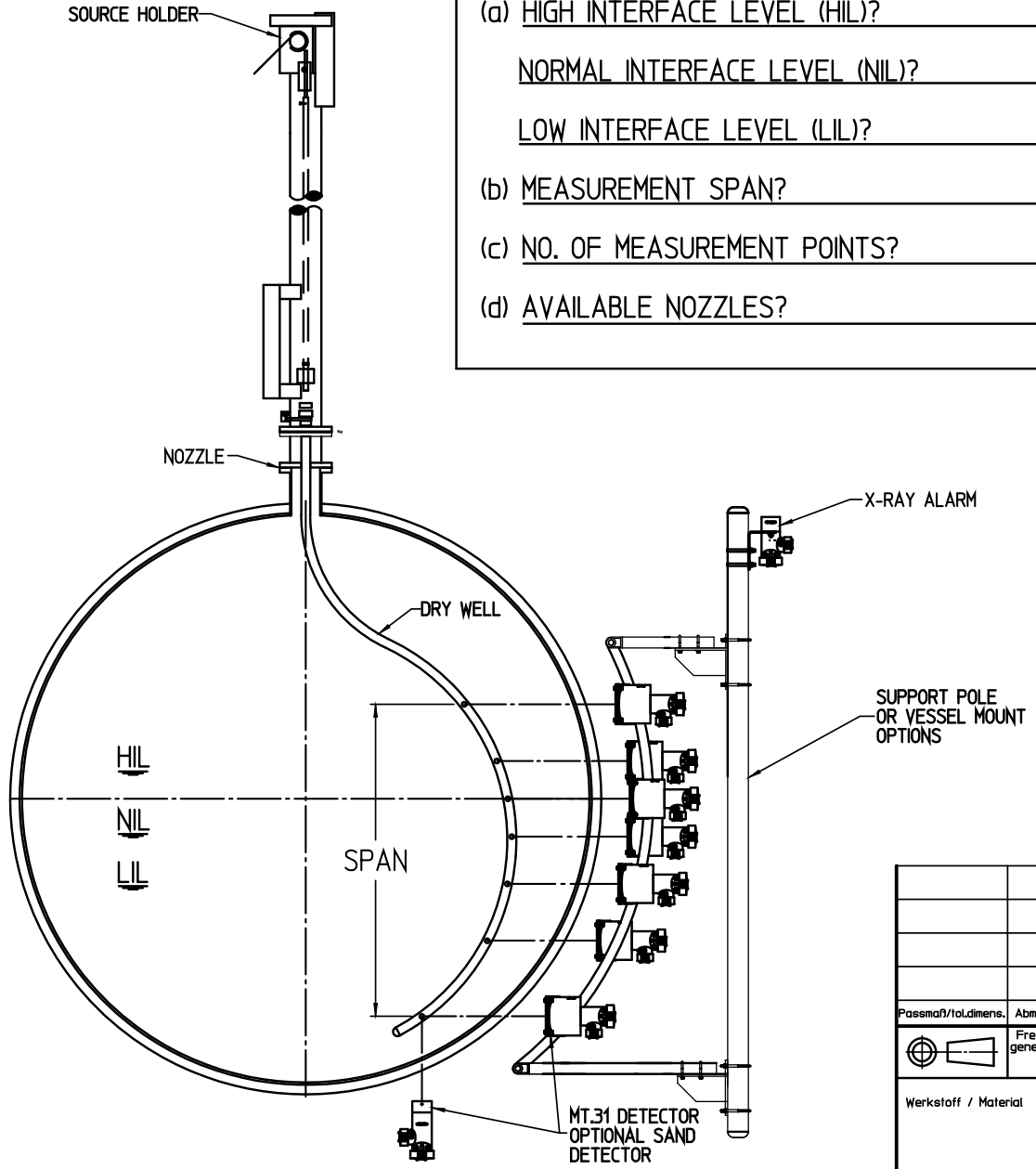
2) DRY WELL PIPE SIZE AND CURVATURE DICTATED BY NOZZLE I.D. AND PROJECTION

3) SPACING AND NUMBER OF DETECTORS/SOURCES MAY VARY. DETECTORS/SOURCES TO BE STRATEGICALLY PLACED TO MONITOR DESIRED CONTROL POINTS/RANGE.

4) SOURCES MUST REMAIN SUBMERGED IN LIQUID. NOT FOR MEASURING VAPOR DENSITY

5) HIGH INTERFACE LEVEL (HIL), NORMAL INTERFACE LEVEL (NIL) AND LOW INTERFACE LEVEL (LIL) REFER TO THE DESIRED INTERFACE CONTROL RANGE

6) OPTIONAL DETECTOR AVAILABLE FOR MEASUREMENT OF SAND/SLUDGE BUILDUP IN BOTTOM OF VESSEL



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CLIENT: Enter Client Name Here		QUOTE#	Quote #
PROJECT: Enter Project Name Here		VESSEL ID:	Vessel ID
REFERENCE: Enter Reference Here			
DETECTOR TAG(S):	Enter Detector Tag(s) Here		
SOURCE TAG(S):	Enter Source Tag(s) Here		

Änd. Nr. ECN no.	Datum / Date	gezeichnet / freigegeben drawn / checked
– initial release	03.08.2017	riedyj
– initial release		

Änderung / revision

Passmaß/tol.dimens. | Abmaß/allowance | Freimaßtoleranz general tolerance

gezeichnet drawn: Datum/Date 03.08.2017 Name/Name riedyj

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Benennung: Genric MDA Template

Description: Genric MDA Template

Werkstoff / Material

Maßstab Scale 1:1

Originalformat size of origin B

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Änd.-Zust. / Rev. –

Var.Fam.: | Var.Fam.2:

Teil ähnl. / sim. part | Ersatz f./replacement f.

Arb.Anw. / work.instr. | all dimensions are in in. (mm)

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