

Technical Bulletin – T5401: Fluid Sample Containing Hydrogen Sulfide (H₂S)

The following guidelines have been implemented concerning fluid samples requiring immersion testing:

1. Fluid samples that contain H₂S in excess of 5 ppm (parts per million) will not be tested at Willis and should not be sent into the Willis plant.
2. In the event that the H₂S level is not filled out or indicated as “traces” on the data sheet, the H₂S content must be verified to be below 5 ppm. The sample must be sent direct to an independent laboratory by the customer for determination of H₂S level. The customer should obtain an RGA number from RMES in the normal manner, but will be advised to send the sample direct to the laboratory.
3. If the H₂S content level is less than 5 ppm, the sample will be forwarded to RMES for immersion testing. If the H₂S level is above 5 ppm, the sample will be disposed of.

For reference, see chart on effects of H₂S exposure:

Toxic Effects of Hydrogen Sulfide Exposure

Concentration	Effect
1 PPM	Smell
100 PPM	Loss of smell
300 PPM	Loss of consciousness with time (~30 min.)
1000 PPM	Immediate respiratory arrest, loss of consciousness, followed by death
OSHA Permissible Exposure Limits: 10 ppm - 8 hr Time Weighted Average 15 ppm - 15 min Short Term Exposure Limit	

Other Info: Direct any questions regarding this bulletin to:

R&M Energy Systems
Customer Service Department
1-888-355-5508 Ext. 252