

CMP PROCEDURE TECH NOVA LIQUID SAMPLER

PURPOSE	Sampling procedure using the TECH NOVA sampler.
SCOPE	This procedure will instruct you on the correct way to sample process streams that are equipped with TECH NOVA samplers.
RELATED PROCEDURES	Sampling policy for gas and liquid samples, waste disposal policy.
DEFINITIONS	TECH NOVA Sampler: This is the name of the sampling device used for catching a process samples.
SAFETY CONCERNS & EQUIPMENT	THERMAL: This sample point may at times have a high or low temperature, so when catching this sample use necessary precaution as to prevent skin contact. Use gloves when sampling. CHEMICAL: Remember you are working with chemicals that may cause skin and eye irritation. MECHANICAL: Use caution when working with cylinders that be under pressure.
ENVIRONMENTAL CONCERNS	With the use of a Tech Nova sampler there should be no emissions to the atmosphere if everything is working properly.
SPECIAL CONCERNS	Tech Nova Sample Cylinder should be emptied after sample analysis is complete.
PROCEDURE RECOMMENDATIONS	If a procedure is currently active at relief, state in the relief notes the status off the job and the steps that have been completed up to this point. Highlight the procedure steps as they are completed so operations personnel are aware of its status. This is especially important during shift relief when jobs are incomplete. Avoid carryover of a job when possible. I.E. Starting a Job at 5:00 AM/PM, just prior to relief.

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DO 008086

TECH NOVA LIQUID SAMPLER**PROCEDURE**

Step	Action
1	Make sure the Technova Valve in the line is completely closed before removing the safety sealing plug.
2	Install the sample cylinder into the Technova Valve and then rotate the cylinder to insure a snug fit. Tighten the lock screw to secure the cylinder.
3	With the cylinder installed, open the valve on the cylinder by rotating the rear valve handle counter clock wise. If a protective shield is installed for this sample point close shield before going on to step four.
4	Now open the in-line valve by depressing the spring loaded handle, or if equipped with a remote switch, rotate switch to the open position. You will see the large wheel on the sample cylinder begin to rotate, this will indicate that sample is filling the cylinder.
5	Once the cylinder is about 3/4 filled, release the spring loaded handle, or if equipped with a remote switch, rotate switch to close position, to stop filling the cylinder.
6	Now block in the needle valve on the sample cylinder by rotating the handle clockwise.
7	After all valves are closed loosen the locking screw and remove the sample cylinder and replace the sealing plug.
8	Return the sample to the lab for analysis.
9	Dispose of unused sample when analysis is completed.

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TECH NOVA LIQUID SAMPLER**Document Control and History**

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Revision History

Revision Date	Reviewer Name	Description of Revision
05/29/97	Terry Vavasseur	To include Tech Nova samplers with remote switches.

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CMP PROCEDURE
ACID AREA SAFETY EQUIPMENT REQUIREMENTS

PURPOSE	To provide a document which will state the safety equipment required in the different acid area's throughout the plant.
SCOPE	Same as above
RELATED PROCEDURES	Sulfuric Acid Lines and Equipment Requiring Elevated Work.
DEFINITIONS	<u>Walk Through</u> = No work will be taking place in this area <u>Working On</u> = Any operation of valves or equipment in the area. This also includes line openings, checking bleeds, trouble shooting equipment where any type of opening is required, etc.
SPECIAL CONCERNS	These are the minimum requirements.
PROCEDURE RECOMMENDATIONS	If a procedure is currently active at relief, state in the relief notes the status off the job and the steps that have been completed up to this point. Highlight the procedure steps as they are completed so operations personnel are aware of its status. This is especially important during shift relief when jobs are incomplete. Avoid carryover of a job when possible. I.E. Starting a Job at 5:00 AM/PM, just prior to relief.

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ACID AREA SAFETY EQUIPMENT REQUIREMENTS

Requirements A full acid suit is required to do any type of work on ground level around H₂SO₄ acid pumps. Any deviation from this requires plant superintendent approval.

To do work on instrumentation in areas requiring a full acid suit to be worn, the thin rubber gloves are permitted.

For any elevated work on lines or equipment which would require an acid suit, see procedure "Sulfuric acid lines and equipment requiring elevated work."

AREA	MEASUREMENTS WALK - THRU	WORKING ON
C-202 Btms	Slicker Suit / Goggles/ Rubber Boots, Gloves	Full Acid Suit. <i>Where elevated work is not required</i>
E-212	Same As Above	Same As Above
C-650 Btms	Same As Above	Same As Above
T-651 Btms	Same As Above	Same As Above
H ₂ SO ₄ T/C Rack (Car Connected)	Same As Above	Same As Above
T-900	Same As Above	Same As Above
C-202 Decks	Goggles	Same As Above
C-650 Decks	Goggles	Same As Above
T-651 Deck	Goggles	Same As Above
H ₂ SO ₄ T/C Rack (Car Not Connected)	Goggles	Goggles (Except When Working On H ₂ SO ₄ Lines)
C-210	Goggles	Slicker Suit / Goggles/ Rubber Boots, Gloves
C-200 / C-201 Btms	Goggles	Same as above
P-301's	Goggles	Slicker Suit / Goggles/ Rubber Boots, Gloves
C-610	Goggles	Same As Above
C-600	Goggles	Same As Above

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ACID AREA SAFETY EQUIPMENT REQUIREMENTS

CATCHING SAMPLES	
AREA	SAFETY EQUIPMENT
<i>C-200/ C-201 / C-210</i>	<i>Slicker Suit / Goggles / Rubber Boots / Gloves</i>
<i>C-600</i>	<i>Same As Above</i>
<i>C-650</i>	<i>Full Acid Suit</i>
<i>H2SO4 T/C</i>	<i>Same As Above</i>
<i>C-202 Btms.</i>	<i>Same As Above</i>

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