

Monsanto**CALL REPORT - ORGANIC DIVISION****DICTATE IN SEQUENCE:**

1. HEADING INFORMATION
2. NAMES OF ADDRESSEES
3. NAMES OF CARBONEES
4. IMMEDIATE ACTION NEEDED
5. REPORT ON CALL

REPORT CAPTIONS:

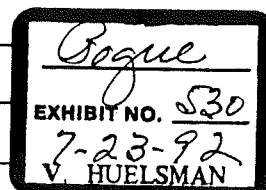
1. OBJECTIVE
2. PERSONS CONTACTED
3. RESULTS
4. ACTION REQUIRED

CUSTOMER NAME COLUMBIA GULF TRANSMISSION CORPORATION		DATE OF CALL 5- 14/15-70	
CITY AND STATE HOUSTON, TEXAS		DATE RECEIVED	DATE TYPED
CUSTOMER MAILING LIST CHANGES - SERVICE CENTER USE ONLY			
NAME AND TITLE	PUT ON	TAKE OFF	MP MAG. CATEGORY CODES
REGION ST. LOUIS	SERVICE CENTER HOUSTON	SALESMAN CARL L. CLAY/ml	

TO N. T. JOHNSON - ST. LOUIS CC R. A. GARCIA - AKRON
JOHN POGUE ST. LOUIS

PERSONNEL CONTACTED:

Herb Van Dyne - Asst. Director of Purchasing
 Jim Simpson - Supervisor of Design Engineering
 W. E. (Bill) Haney - Supervisor Transmissions Services

**OBJECTIVES:**

1. Introduce Turbinol - 153 to C. G. Personnel.
2. To establish specific usage of Fryquel 220 in specific location of turbines.
3. Establish receipt of new GES Turbine in relation to Turbinol-153.

RESULTS:

I contacted Pat Puyper the G. E. representative here in Houston and got the names of the personnel at Columbia Gulf. Van Dyne forward the discussion on fluids to Simpson and Haney since this was a technical engineered product, he would accept nothing but the recommendations of his engineering and operations department. Columbia Gulf is split into two groups of engineers, engineering and operations or as they call it; transmission. Columbia Gulf Transmission Corporation is a subsidiary of Columbia Gas System Inc. Columbia Gulf Transmission is primarily involved in the movement of natural gas from the gulf coast area of Louisiana to delivery points in Kentucky. The United Fuel Gas Company of Charleston, West Virginia is a recipient of this natural gas and is retailed to customers in the Kentucky Isle - West Virginia, Virginia Area.

Spent almost the entire afternoon with Simpson discussion fluids in general in a more specific technical characteristic of Fryquel 220 to Turbinol-153. He had received a letter on April 30, 1970 from the G. E. representative here in Houston. The letter, via summary, stated that the use of Fryquel 220 100% phosphate ester, had gone on previous results to decompose and degrade resulting in high acid numbers and coking in the turbines. It made no mention of other alternatives. It was quite evident to Simpson that this letter from G. E. was more or less a distinctive warning with regard to their four predicted 500°F

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CITY AND STATE HOUSTON, TEXAS ----CONTINUED -2-		DATE RECEIVED	
CUSTOMER MAILING LIST CHANGES - SERVICE CENTER USE ONLY			
NAME AND TITLE	PUT ON	TAKE OFF	MP
REGION	SERVICE CENTER	SALESMAN	

TO N. T. JOHNSON - ST. LOUIS CC R. A. GARCIA
JOHN POGUE

RESULTS CONTINUED:

temperatures on the second and third bearing of their turbines. As a result of our discussion, and the letter from G. E. Simpson made the comment that it looked as through the G. E. turbine due at Columbia Gulf at the latter part of the summer would more than likely go with Turbinol 153. He stated that he would certainly contact G. E. specifically with regard to Turbinol 153.

It is apparent now that for us to get Turbinol 153 in these new gas turbines - all G. E. has to do is to give their stamp of approval on use of Turbinol 153.

Fryquel 220 has been used at Columbia Gulf since 1960 and several of their Pratt Whitney gas jet turbines. According to Van Dyne their usage of Fryquel 220 is in excess of 200 drums per year. Columbia Gulf does operate one gas turbine in Charleston, West Virginia. This has been in operation since 1966 and has seen 80,000 hours of service on Texaco's Regal Oil A. While in Simpson's office he called Charleston and asked specifically what they were using and if they had any problems. Charleston stated that they had not had any problems outside of one explosion which shut down the gas turbine for a little over two weeks.

The following list of those stations on the Columbia Gulf System which are using Fryquel 220 which includes the whole system within Columbia Gulf Transmission Corporation

JET GAS TURBINES

R. T. 105 - 10,500 HP - Pratt & Whitney Air Craft Turbine with Cooper Bessemer Centrifugal Compressor. — *Compressor only*

R.P - 160 - 16,000 HP - Pratt & Whitney Air Craft Turbine with Cooper Bessemer Centrifugal Compressor. — *Compressor only*

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-4-				DATE TYPED	
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NAME AND TITLE		PUT ON	TAK OFF	MP	MAG.
REGION		SERVICE CENTER		SALESMAN	

TO N. T. JOHNSON - ST. LOUIS CC R. A. GARCIA
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Talked to Haney who is the operations supervisor for the transmission line. In my discussion to Haney, he stated that he know I had been in to see Simpson on May 14 and that he had decided to contact a few of his friends around the industry. He contacted Buck Johnagan at Texas Eastern and according to Haney when I walked in the doors Johagan said they never used Monsanto's fluid. After much discussion and frustration, needless to say, I offered Buck Johnagan to call on my tab to confirm the fact that they have been using the fluid for twelve (12) years. I luckily had taken a couple of letters with cover letters from Texas Eastern and feel that Haney is now somewhat astired of the fact that we have been working with Texas Eastern for 12 years with Turbinol 153. After much of this discussion, Haney told me that he had given a one of his men the job to decide on which fluid they would be using in the new G. E. Turbines in the other new equipment coming in this year. This gentlemen's name is Fred Raymond he is located in Nashville, Tennessee and I will thus call on him within two weeks. The other transmission gas company that Haney contacted was Trans-Canada. He contacted a Paul Knight with regard to their fluid usage and said that they were presently using Cellu-lube in their gas turbines but were not at all happy and were open to change if there were something better on the market than cellu-lube or Fryquel 220.

ATTENTION: ^{Don} Pam Pogue: I do not know what the status is of Trans-Canada in our introduction of Turbinol 153 but according to Haney, Knight - should certainly be receptive to a presentation on Turbinol 153. MUST BE LOWER COST. DEPENDS ON AGTL TEST!

ATTENTION: CLC - Contact Simpson in next two weeks to discuss feed-back from G. E. on Turbinol 153. Contact during week of May 25, 1970 - Fred Raymond in Nashville, Tennessee with regard to Turbinol 153.

CLC

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