



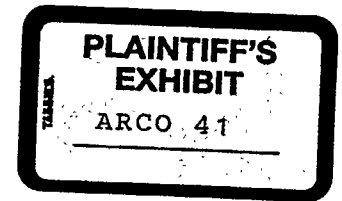
Date: March 17, 1988

Subject: ARCO Sag River
Asbestos Air Sampling

From/Location: P. Persaud, LAC 1413

To/Location: D. B. Sucharski, LAC 1197

Pamela / new



On February 26, 1988, air sampling was conducted on the ARCO Sag River to determine if any airborne asbestos was present in the accommodation areas or the engineroom.

The results of the air sampling, which are presented in the attached table, indicate that the airborne concentrations of asbestos were well within the Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) of 0.2 fiber per cubic centimeters (F/cc). The airborne concentrations of asbestos were actually below the detection limit of the standard analytical method used in analysis, NIOSH method #7400 revised 5/15/85 as specified in the OSHA standards.

Asbestos bearing materials have been used in the construction of the ARCO 90,000DWT vessels, namely the ARCO Prudhoe Bay and ARCO Sag River. The materials were used in the bulkhead panels and linings, the transite cement panels in the living quarters and in the vinyl-asbestos floor tiles. These materials in their present form do not present a serious health hazard. However, this may change if the materials are made to be friable through mechanical abrasion, maintenance activity, construction and fracturing which may expose the inner surfaces of the panels resulting in the generation of airborne asbestos fibers.

The chief areas of concern at this time are the mechanical abrasion, construction, the source of fracture of the transite panelling and normal maintenance and handling of asbestos containing materials. It is recommended that, because asbestos containing materials may be present on board in the foreseeable future, an asbestos management procedure be implemented. The procedure should identify all asbestos containing materials on board, provide guidelines for maintenance activity and modification of the accommodation spaces, protocol to properly use, dispose and clean asbestos containing materials and training for all crew members who may come in contact with these materials. Good housekeeping is also essential in maintaining an environment free of dust potentially bearing airborne asbestos fibers.

Please feel free to call me if you have any questions or require further assistance.

PP:vaw

cc: IH FILE
X. J. Padilla

ARCO MARINE, INC.
ARCO SAG RIVER
AIR SAMPLING RESULTS
2/26/88

<u>SAMPLE IDENTIFICATION</u>	<u>LOCATION</u>	<u>TIME PERIOD SAMPLED</u>	<u>AIRBORNE CONTAMINANTS</u>	<u>CONCENTRATION DETECTED</u>
AT38055	Area sample - Officer's lounge	12:55 -20:55 (480 min.)	Asbestos	0.001 F/cc
AT38056	Area sample - Crew's lounge	12:56 -20:56 (480 min.)	Asbestos	0.000 F/cc
AT38057	Area sample - Chief Engineer Office	13:00 -21:00 (480 min.)	Asbestos	0.001 F/cc
AT38058	Area sample - Radio room	13:00 -21:00 (480 min.)	Asbestos	0.001 F/cc
AT38059	Area sample - Engine room	13:05 -21:05 (480 min.)	Asbestos	0.002 F/cc

*F/cc refers to Fibers per cubic centimeters of air.

**Applicable Standards: The Occupational Safety and Health Administration (OSHA) has issued a standard which sets a permissible exposure limit (PEL) of 0.2 fibers/cc for airborne concentration of asbestos to which nearly all employees may be exposed based on an 8-hour time-weighted averaged (TWA). The rule is stated in the general industry standard 29CFR 1910.1001 and is applicable to all general industry including maritime.