

PROJECT FACT SHEET

CONTRACT TITLE: Phase II Naturally Occurring Radioactivity Materials Risk Assessment

DATE REVIEWED: 01/28/93

DATE REVISED: 11/17/92

OBJECTIVE: To perform a realistic assessment of the health risks associated with the ingestion of radium in fish and shellfish harvested near offshore produced water discharges. This project is a continuation of a Phase I study, which was funded by the American Petroleum Institute.

<p>ID NUMBER: AS-329-ASD</p> <p>B & R CODE: AC1505/1510</p> <hr/> <p>CONTRACT PERFORMANCE PERIOD: 09/15/91 to 09/30/92</p> <p>PROGRAM: Lt/Hvy Oil</p> <p>RESEARCH AREA: Environmental</p> <hr/> <p>DOE PROGRAM MANAGER: NAME: Nancy Johnson COMMERCIAL: (202) 586-6458</p> <hr/> <p>DOE PROJECT MANAGER: NAME: Brent W. Smith LOCATION: MSO COMMERCIAL: (504) 734-4970</p>	<p>CONTRACTOR: Brookhaven National Lab</p> <p>ADDR: Upton, NY 11973</p> <p>CONTRACT PROJECT MANAGER: NAME: R.F. Peierls and L. Petneckis ADDR: Brookhaven National Lab Upton, NY 11973</p> <p>PHONE: (516) 282-2123 FAX: (516) 282-3000</p> <hr/> <p>PROJECT SITE:</p>
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SCHEDULED MILESTONES:

Draft interim report to U.S. EPA.	03/92
Final report.	12/92
Detailed workplan & approach to assessments based on data collected in Fy 1993.	09/93

FUNDING (1000'S)	DOE	OTHER	CONTRACTOR	TOTAL
PRIOR FISCAL YRS	205	0	0	205
FISCAL YR 1993	0	0	0	0
FUTURE FUNDS	0	0	0	0
TOTAL EST'D FUNDS	205	0	0	205

PROJECT DESCRIPTION: This task involves support to the U.S. Department of Energy in its research effort to characterize the human health and environmental risks associated with the discharge of naturally occurring radioactive material in produced waters. BNL recently completed a screening-level assessment of the health and environmental risks associated with the discharge of radium in produced waters to coastal Louisiana. This task will produce more detailed and realistic assessments for coastal and offshore radionuclide discharges in produced water. The assessments will incorporate realistic estimates of fish and shellfish ingestion by platform workers and recreational fishermen, and will use water and food concentrations reported in recent field studies.

PRESENT STATUS: Draft report dated March 1992 received and submitted to U.S. EPA.

ACCOMPLISHMENTS:

1. The interm report submitted to U.S. EPA concluded that the risk to recreational fisherman would be small and supported EPA's decision not to regulate NORM in offshore discharges.
2. Data needs for a more comprehensive assessment were identified and have been used to direct a field study to begin in FY 1993.

BACKGROUND: Produced water can contain significant amounts of NORM. There is a concern that discharges of these contaminants to coastal and offshore environments may result in significant risks to human health. A conservative screening analysis suggests that there might be significant risk to an individual who ingests large amounts of seafood harvested near a produced water discharge point over a lifetime.