

# **SUPPORT FOR CONSULTANT/SUBCONTRACTOR REQUEST**

April 30, 1998

## **CONSULTANT/SUBCONTRACTOR:**

Philip Doubik

## **RATIONALE FOR USING AND PROGRAMMATIC IMPACT OF NOT USING CONSULTANT/SUBCONTRACTOR:**

Without Dr. Doubik's participation the development of the consequences of volcanism will not be fully developed and the uncertainties will remain high.

## **STATEMENT OF WORK:**

The work will form the basis for constraining subsurface disruption volumes for a repository-penetrating volcanic event. Dr. Doubik has investigated the subsurface disruption processes which occurred during the 1975 Tolbachik eruption in Kamchatka, Russia. Dr. Doubik will bring data used in his Ph.D. thesis and will integrate additional CNWRA data into process-level models developed for his thesis. This information will be used to bound the subsurface disruption parameter in future PA analysis.

## **LIST OF ELIGIBLE CONSULTANTS/SUBCONTRACTORS CONSIDERED:**

None

## **RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:**

Dr. Doubik has recently completed his thesis on the subsurface disruption during the 1975 Tolbachik eruption in Kamchatka, Russia.

## **RATIONALE FOR NOT USING SwRI RESOURCES:**

No one at SwRI has the necessary background and experience.

## **PROGRAMMATIC IMPACT ON CNWRA WORK:**

Dr. Doubik's participation will lead to the reduction of uncertainties regarding the volume of subsurface material carried to the surface by an erupting volcano.

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## MEMORANDUM

April 30, 1998

**TO:** Wesley C. Patrick  
**FROM:** H. Lawrence McKague, Element Manager, GLGP *HL McK*  
**SUBJECT:** Consultant Service Contract Memo for Philip Doubik

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The following is submitted in connection with this request for the subject consultant.

### RATIONALE FOR CONTRACT:

Dr. Doubik has investigated the subsurface disruption processes which occurred during the 1975 Tolbachik eruption in Kamchatka, Russia. Dr. Doubik will bring data used in his Ph.D. thesis and will integrate additional CNWRA data into process-level models developed for his thesis. This information will be used to bound the subsurface disruption parameter in future PA analysis. Without Dr. Doubik's participation the development of the consequences of volcanism will not be fully developed and the uncertainties will remain high. This will form the basis for constraining subsurface disruption volumes for a repository-penetrating volcanic event.

### PROJECT NUMBER(S)

20-1402-461

### DAYS/HOURS REQUIRED

Estimated rate/hour: .

Estimated duration/hours: 80 hrs

/adm

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