

The applicant proposes to enter the Cape Royds Site of Special Scientific Interest for purposes of collecting soil samples to isolate and identify natural organic matter contained therein. A minimum amount of soil will be removed as close to the shoreline as possible (~1kg), thereby minimizing impact on the nesting colony. Laboratory analysis will be performed in the Crary Lab at McMurdo Station. In addition, a survey of Pony lake will be performed at different cross sections. Dissolved oxygen, conductivity, depth, light intensity, and pH will be measured. All water samples will be collected from the side of Pony Lake opposite of the penguin rookery.

Location: Cape Royds Site of Special Scientific Interest No. 1, Ross Island, Antarctica.

Dates: November 25, 1997 to January 20, 1998.

2. Applicant

Philip R. Kyle, Department of Earth and Environmental Science, New Mexico Tech, Socorro, New Mexico, 87801

Permit Application No. 98-018

Activity for Which Permit Is Requested

Enter Site of Special Scientific Interest.

The applicant proposes to enter the Tramway Ridge, Site of Special Scientific Interest No. 11, on Mount Erebus to measure the temperature of the soil as a means of monitoring the volcanic activity of Mount Erebus. In addition, as the only area of soil on Mount Erebus, the applicant plans to measure the quantity of CO₂ in the soil and measure its flux into the atmosphere. This will provide information on the degassing behavior of the magmatic system underlying Mount Erebus.

Location: Tramway Ridge (SSSI #11), Mount Erebus, Ross Island, Antarctica.

Dates: December 1, 1997 to December 30, 1997.

3. Applicant

Gary and Robert Miller, Biology Department, University of New Mexico, Albuquerque, NM 87131

Permit Application: 98-019

Activity for Which Permit Is Requested

Taking and Importing into the U.S. The applicant proposes to collect blood samples (1.0-1.5 ml) from less than 200 adult penguins from each of the following species: *Pygoscelis adeliae* (adelie), *Pygoscelis antarctica* (chinstrap) and *Pygoscelis papua* (gentoo). Blood will also be collected from about 20 *Eudyptes chrysolopha* (macroni). Tissue samples will be taken

from the carcasses of chicks from the species listed above, including *Aptenodytes forsteri*. The samples will be used to analyze the phylogenetic relationships and the genetic variation of 2 major genera of penguins, the *Spheniscus* and *Pygoscelis* penguins. The Macaroni and Emperor samples will be used as outgroups to help elucidate the relationships of the other species. The applicant will study the major histocompatibility complex (MHC) genes from nuclear DNA and cytochrome b genes from mitochondrial DNA obtained from small tissue samples or whole blood samples. Molecular methods have the advantage of showing small intraspecific variations. This will enable the applicant to compare small genetic differences among populations to determine the distribution of genetic variation and predict the colonization history of populations.

The applicant will be traveling in the Antarctic Peninsula as a lecturer onboard a cruise ship and will visit many sites over the next two seasons. Sampling of breeding populations will take place on an opportunity basis and attempts will be made to collect 15 samples from each site. The blood and tissue samples will be returned to University of New Mexico for analysis.

Location: South Orkney Islands, South Shetland Islands, Antarctic Peninsula and East Antarctic Coastline.

Dates: November 15, 1997 to March 15, 1999.

Nadene G. Kennedy,

Permit Officer, Office of Polar Programs.

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NUCLEAR REGULATORY COMMISSION

Regulatory Guide; Issuance, Availability

The Nuclear Regulatory Commission has issued a revision to a guide in its Regulatory Guide Series. This series has been developed to describe and make available to the public such information as methods acceptable to the NRC staff for implementing specific parts of the Commission's regulations, techniques used by the staff in evaluating specific problems or postulated accidents, and data needed by the staff in its review of applications for permits and licenses.

Revision 3 of Regulatory Guide 5.44, "Perimeter Intrusion Alarm Systems," has been developed to provide guidance to licensees and applicants on selecting perimeter intrusion-detection alarm systems and their applications at

nuclear power reactors, independent spent fuel storage installations, and certain special nuclear material processing facilities.

The NRC has verified with the Office of Management and Budget the determination that this regulatory guide is not a major rule.

Comments and suggestions in connection with items for inclusion in guides currently being developed or improvements in all published guides are encouraged at any time. Written comments may be submitted to the Rules and Directives Branch, Division of Administrative Services, Office of Administration, U.S. Nuclear Regulatory Commission, Washington, DC 20555.

Regulatory guides are available for inspection at the Commission's Public Document Room, 2120 L Street NW., Washington, DC. Single copies of regulatory guides may be obtained free of charge by writing the Office of Administration, *Attention:* Printing, Graphics and Distribution Branch, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by fax at (301)415-5272. Issued guides may also be purchased from the National Technical Information Service on a standing order basis. Details on this service may be obtained by writing NTIS, 5285 Port Royal Road, Springfield, VA 22161. Regulatory guides are not copyrighted, and Commission approval is not required to reproduce them. (5 U.S.C. 552(a))

Dated at Rockville, Maryland, this 7th day of October 1997.

For the Nuclear Regulatory Commission.

Malcolm R. Knapp,

Acting Director Office of Nuclear Regulatory Research.

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Rule 13e-3 and Schedule 13E-3, SEC File No. 270-1, OMB Control No. 3235-0007 Form S-8 SEC File No. 270-66 OMB Control No. 3235-0066 Regulations 14D and E and Schedules 14D-1 and 14D-9, SEC File No. 270-114, OMB Control No. 3235-0102