

B. COLLECTIONS OF INFORMATION EMPLOYING STATISTICAL METHODS

The agency should be prepared to justify its decision not to use statistical methods in any case where such methods might reduce burden or improve accuracy of results. When Item 17 on the Form OMB 83-I is checked "Yes," the following documentation should be included in the Supporting Statement to the extent that it applies to the methods proposed:

- 1. Describe (including a numerical estimate) the potential respondent universe and any sampling or other respondent selection method to be used. Data on the number of entities (e.g., establishments, State and local government units, households, or persons) in the universe covered by the collection and in the corresponding sample are to be provided in tabular form for the universe as a whole and for each of the strata in the proposed sample. Indicate expected response rates for the collection as a whole. If the collection had been conducted previously, include the actual response rate achieved during the last collection.**

Respondent Universe and Sampling Methods

Below is a description of the respondents for the online surveys for participants from the USAP over the past four years.

Online Surveys for Participants from the USAP (2020 to Present)

The universe of respondents for this initial survey includes approximately 6,000 USAP representatives who participated from 2019 through current deployment. USAP representatives/participants are defined as “all persons working or visiting at a USAP or an NSF managed Antarctic station, field camp, other facility, ship, or aircraft. This includes, but is not limited to, researchers, students, contractors, federal civilian and military personnel.” (These representatives will be referred to as survey invitees throughout this document). One survey will be developed for all USAP participants. Expected response rate is 30% for the universe of survey respondents.

Table B.1: Number of Survey Invitees from the USAP

Survey Type	Number of Survey Invitees
USAP Participants	6,000
Total	6,000

The survey invitees will be identified with the assistance of the NSF Office of Polar Programs. USAP maintains a list of deployed participants with corresponding emails.

- 2. Describe the procedures for the collection of information including:**
 - **Statistical methodology for stratification and sample selection.**
 - **Estimation procedure.**

- **Degree of accuracy needed for the purpose described in the justification.**
- **Unusual problems requiring specialized sampling procedures, and**
- **Any use of periodic (less frequent than annual) data collection cycles to reduce burden.**

Procedures for Online Surveys

- The USAP maintains a database of deployers that includes names and email addresses. USAP will provide LDSS with a list of email addresses in support of this survey. The list will include individuals who have deployed from 2019 up to the present.
- Introductory email – NSF will send an introductory email to survey invitees. The purpose is to provide an overview of the SAHCS and encourage participation in the survey. The survey invitation will include a secure link to the online Qualtrics survey.
- Invitation email (Attachment A) – NSF will send the invitation email to complete the online survey to invitees. The invitation email explains the purpose of the SAHCS; emphasizes that participation in the survey is voluntary; lists the closing date of the survey; identifies who will have access to the data. The survey will be open for two months. NSF will send reminder emails at intervals during the survey open period if necessary to encourage USAP community members to participate in the survey.

Analysis Procedures for Online Surveys

Data analysis will begin with “cleaning” the data and basic statistical analysis using SPSS 27 to determine the extent of missing data, representativeness of the sample, and reliability of the survey’s scales. Descriptive statistics, including frequency tables of all variables and cross tabulation tables to examine different experiences within demographic groups will help to determine if some groups disproportionately experience sexual assault and sexual harassment, including incidence, prevalence and bystander rates among identity groups, community members’ perceptions, and effectiveness of SAHPR efforts. As appropriate, responses to open-ended questions will be grouped into categories and summarized with descriptive statistics as well.

- 3. Describe methods to maximize response rates and to deal with issues of non-response. The accuracy and reliability of information collected must be shown to be adequate for intended uses. For collections based on sampling, a special justification must be provided for any collection that will not yield "reliable" data that can be generalized to the universe studied.**

See section B.2. above. We will also post fliers in common areas (i.e., dining facilities, residences, etc.) that “advertise” the SAHCS and encourage participation. In addition, participation in this data collection endeavor can be mentioned to currently deployed personnel through normal channels such as mandatory on-ice in briefings and all hands meetings.

- 4. Describe any tests of procedures or methods to be undertaken. Testing is encouraged as an effective means of refining collections of information to minimize burden and improve utility. Tests must be approved if they call for answers to identical questions**

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from 10 or more respondents. A proposed test or set of tests may be submitted for approval separately or in combination with the main collection of information.

Online Survey: Questions in the survey have been used by SMEs in other settings, including workplaces, Military communities, and government agencies. The SAHCS will use validated survey questions that are implemented using research-based survey practices. USAP specific factors will be incorporated into the SAHCS and will be piloted with a sample of USAP community members (less than 9 individuals) to ensure that participants understand survey questions, the questions measure what they are intended to measure, and that the questions align with the specific USAP context and experiences of community members. Adjustments will be made to the draft SAHCS based on feedback from the pilot audience.

5. Provide the name and telephone number of individuals consulted on statistical aspects of the design and the name of the agency unit, contractor(s), grantee(s), or other person(s) who will actually collect and/or analyze the information for the agency.

Jane Stapleton, MA
President, Soteria Solutions
(603) 219-9039

Caroline Leyva, MPA
Director of Curriculum Development, Soteria Solutions
(603) 815-4190

Alan Berkowitz, PhD
Independent Scholar and Researcher, Contractor for Soteria Solutions
(530) 784-0416

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References

Berkowitz, AD (2010) Fostering Health Norms to Prevent Violence and Abuse: The Social Norms Approach. Chapter 8 in Kaufman, K (Ed): *The Prevention of Sexual Violence: A Practitioner's Sourcebook*. NEARI Press, Holyoke, MA.

Berkowitz, AD, Bogen, K.W., Meza, RJ, Mulla, MM, Orchowski, L.M. (2022). The Social Norms Approach as a Strategy to Prevent Violence Perpetrated by Men and Boys: A Review of the Literature. Orchowski, LM and Berkowitz, AD (Eds). Chapter 7 in *Engaging Boys and Men in Sexual Assault Prevention: Theory, Research and Practice*. Elsevier Inc.

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