Considerations for Integrating Women into Closed Occupations in U.S. Special Operations Forces

Appendixes


Prepared for U.S. Special Operations Command
Approved for public release; distribution unlimited
The technical appendixes included in this report present ancillary material in support of *Considerations for Integrating Women into Closed Occupations in the U.S. Special Operations Forces* (Szayna et al., 2016), which documents the findings of the task to provide analytical support to U.S. Special Operations Command (USSOCOM) regarding the future role of women in special operations forces (SOF). The task was part of the project “Enabling an Efficient and Effective Global SOF Network.” The project’s goal was to provide analytical assistance to USSOCOM concerning all aspects of the implementation of the future vision and operating concept put forth by USSOCOM. The task aimed to assess the range of potential challenges to the effective integration of women into SOF, focusing on the unit and team levels.

USSOCOM received the report and appendixes in June 2015. On December 3, 2015, Secretary of Defense Ashton Carter ordered the military services to open all combat jobs to women, with no exceptions. The Secretary of Defense also approved a number of studies, including this study, on the topic of women in ground combat to be publicly released. This report has been edited but otherwise not updated substantively since the final version was delivered to the sponsor in June 2015.

This research was sponsored by USSOCOM and conducted within the Forces and Resources Center of the RAND National Defense Research Institute, a federally funded research and development center sponsored by the Office of the Secretary of Defense, the Joint Staff, the Unified Combatant Commands, the Navy, the Marine Corps, the defense agencies, and the defense Intelligence Community. The overall project, as well as research on other tasks that were a part of the project, was conducted within the International Security and Defense Policy Center of the RAND National Defense Research Institute.

For more information on the RAND Forces and Resources Center, see www.rand.org/nsrd/ndri CENTERS/FRP or contact the director (contact information is provided on the web page). For more information on the International Security and Defense Policy Center, see www.rand.org/nsrd/ndri/centers/isdp or contact the director (contact information is provided on the web page).
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This appendix presents the figures on U.S. Special Operations Command (USSOCOM) personnel in special operations forces (SOF) military occupational specialties (MOSs) that were closed, either by unit assignment or by specialty. The tables are reproduced as they appeared in a memorandum from Admiral William McRaven, Commander, USSOCOM, on the subject “U.S. Special Operations Command Implementation Plan for Elimination of Direct Combat Assignment Rule,” dated March 22, 2013.
MEMORANDUM FOR

CHIEF OF STAFF, U.S. ARMY, 0200 ARMY PENTAGON, WASHINGTON, DC 20310-0200

COMMANDANT, U.S. MARINE CORPS, 3000 MARINE CORPS PENTAGON, WASHINGTON, DC 20350-3000

CHIEF OF NAVAL OPERATIONS, 2000 NAVY PENTAGON, WASHINGTON, DC 20350-2000

CHIEF OF STAFF, U.S. AIR FORCE, 1670 AIR FORCE PENTAGON, WASHINGTON, DC 20330-1670

SUBJECT: U.S. Special Operations Command Implementation Plan for Elimination of Direct Combat Assignment Rule

22 March 2013

1. I applaud the Department’s decision to eliminate the Direct Combat Assignment Rule (DCAR) and believe the eventual and complete integration of women into U.S. Special Operations Command (USSOCOM) will provide a new and powerful dimension to our Special Operations Forces (SOF) formations. However, much work remains to be done. I have concerns specific to USSOCOM that must be addressed prior to making an informed recommendation which complies with the Chairman’s guiding principles for implementation. USSOCOM is inherently joint, and our Forces have achieved a level of interdependence critical for operating in small, self-contained teams that usually typify our operations, many of which are in austere, politically-sensitive environments for extended periods. This complexity requires an assessment predicated upon detailed analysis, ultimately providing a single, clear procedure for execution throughout the USSOCOM enterprise.

2. The scope of my assessment is focused on our Special Forces Groups, SEAL Teams, Ranger Regiment, 160th Special Operations Aviation Regiment, SOF Battlefield Airmen, and Marine Special Operators. We are also evaluating the implications of integrating Service-provided female enablers (predominately supporting specialties listed in Enclosure 1) into the formations referenced above. We will continue to work closely and transparently with each of the Military Services throughout this assessment, ultimately providing a coordinated recommendation for implementation.

3. I have initiated three independent efforts.

   a. My primary focus is an ongoing, comprehensive USSOCOM-wide Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities, and Policy (DOTMLPP-P) analysis with special emphasis on gender-neutral training standards in our SOF initial entry (qualification) courses, Leadership and Education requirements associated with integration, and an evaluation of our facilities.
SOCC
SUBJECT: U.S. Special Operations Command Implementation Plan for Elimination of Direct Combat Assignment Rule

b. I have also tasked my Center for Special Operations Studies and Research in our Joint Special Operations University to research and analyze the social science impacts to include surveys of integrating women into small, elite teams that operate in remote, austere environments.

c. Complementing the two efforts referenced above, I have contracted with RAND Corporation to provide their independent, non-biased analysis.

4. The DCAR Implementation Timeline (See Enclosure 2 for more details) follows. USSOCOM will:

a. Conduct a comprehensive DOTMLPF-P analysis of the impacts of integrating women into previously closed specialties, units, and positions, to include an assessment and validation of gender-neutral occupational performance standards no later than (NLT) 1 July 2014.

b. Conduct social science assessments of the psychological and social impacts of integrating women into small SOF units as part of a comprehensive study concluding NLT 1 July 2014.

c. Commission the RAND study and make available their findings NLT 1 July 2014.

d. Submit a USSOCOM-approved list of occupational specialties and positions open to women NLT 1 April 2015 for notification to Congress and follow-on integration. Concurrently, if required, request an exception to policy.

e. Assign senior and mid-grade female cadre members to SOF training commands and previously "closed" SOF operational units (except for any units or occupational specialties included in a request for exception to policy) NLT 1 October 2015.

f. Submit the USSOCOM quarterly progress reports at the end of each quarter, beginning in 3rd Quarter Fiscal Year 2013.

5. My primary point of contact is MG Bennet Sacolick, email: bennet.sacolick@socom.mil, commercial: 813-826-5710, DSN 299-5710.

WILLIAM H. MCRAVEN
Admiral, U.S. Navy
Commander

2 Encls

2

as
NOTE: FY = fiscal year; Q = quarter; CJCS = Chairman of the Joint Chiefs of Staff; DEF REQS = Defense Requirements; CDR = Commander.
## U.S. Special Operations Command Positions Previously Closed to Women

### Closed By Unit

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<tr>
<th>Service</th>
<th>Grade</th>
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<th>Open</th>
<th>Closed</th>
<th>% Open</th>
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<tr>
<td>Air Force</td>
<td>Officer</td>
<td>130X</td>
<td>Combat Rescue Officer</td>
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<tr>
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<td>1C4XX</td>
<td>Tactical Air Control Party (Enlisted)</td>
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<td>Pararescue (Enlisted)</td>
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### USASOC

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<th>Closed</th>
<th>% Open</th>
</tr>
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<td>Army</td>
<td>O/E</td>
<td>12X</td>
<td>Engineer</td>
<td>223</td>
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<td>28</td>
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<td>Field Artillery Targeting Technician</td>
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<td>Army</td>
<td>O/WOE</td>
<td>25XX</td>
<td>Aviation</td>
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<td>Army</td>
<td>O/E</td>
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<td>Signals / Comm</td>
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<td>882</td>
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<td>57A</td>
<td>Simulations Operations Officer</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>66.67%</td>
</tr>
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<td>Army</td>
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<td>59A</td>
<td>Strategist</td>
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<td>1</td>
<td>0.00%</td>
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<td></td>
<td></td>
<td>15086</td>
<td>7191</td>
<td>7895</td>
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### NAVMC

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<td>USMC</td>
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### NAVSPECWARCORE

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<td>USN</td>
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<td>E-3</td>
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<td>Intelligence Specialist (IS) Supporting Submarine Operations</td>
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<td>13</td>
<td>0</td>
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<tr>
<td>USN</td>
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<td>E-3</td>
<td>20812</td>
<td>Combat Systems Support</td>
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<td>USN</td>
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<td>E-4</td>
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<td>EOD NCO (L Officer and 7 Enlisted per deploying NSWRC)</td>
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**Level Total** | 16577 | 7191 | 8946 | 55.0% |
### Closed By Specialty

#### USSOCOM-controlled MOS, occupations, specialties, and career fields

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<th>Service</th>
<th>Grade</th>
<th>MOS/AFSC</th>
<th>Service</th>
<th>Title</th>
<th>Total</th>
<th>Open</th>
<th>Closed</th>
<th>% Open</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AFSOC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Force</td>
<td>Officer</td>
<td>E13C</td>
<td>Special Tactics Officer</td>
<td>104</td>
<td>0</td>
<td>104</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>Air Force</td>
<td>Officer</td>
<td>E19MNC</td>
<td>Special Operations Weather Officer</td>
<td>18</td>
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<tr>
<td>Air Force</td>
<td>Enlisted</td>
<td>E1C9X</td>
<td>Combat Control (Enlisted)</td>
<td>561</td>
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<td>Air Force</td>
<td>Enlisted</td>
<td>E4W0X2</td>
<td>Special Operations Weather (Enlisted)</td>
<td>126</td>
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<td>126</td>
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<td></td>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>863</td>
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<td><strong>USASOC</strong></td>
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<tr>
<td>Army</td>
<td>Enlisted</td>
<td>E11X</td>
<td>Infantryman (Ranger)</td>
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<tr>
<td>Army</td>
<td>O/WO/E</td>
<td>E8X0</td>
<td>Special Forces</td>
<td>7353</td>
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<tr>
<td>Total</td>
<td></td>
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<td>9630</td>
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<tr>
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<tr>
<td>USMC</td>
<td>O/E</td>
<td>G37R</td>
<td>Special Operations / Critical Skills Operations</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
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<td></td>
<td></td>
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<tr>
<td><strong>NAVSPECWARCOM</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAVY</td>
<td>O/WO/E</td>
<td>113B7/113A/3526</td>
<td>SEAL Officer/Warrant Officer/Enlisted</td>
<td>3394</td>
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<tr>
<td>NAVY</td>
<td>W/O/E</td>
<td>7170/3152</td>
<td>SWCC Warrant Officer/Enlisted</td>
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</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
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<td></td>
<td>4336</td>
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<tr>
<td><strong>Level 2 Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15497</td>
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</tr>
<tr>
<td><strong>Level 1 &amp; 2 Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>32074</td>
<td>7791</td>
<td>24283</td>
<td>22.4%</td>
</tr>
</tbody>
</table>

**NOTES:**
- AFSC = Air Force Specialty Code; AFSOC = Air Force Special Operations Command;
- E = enlisted; EOD = Explosive Ordnance Disposal; FAC/AO = Forward Air Controllers/Air Officers;
- JTAC = joint terminal attack controller; MPC = Multi-Purpose Canine Handler; MOA = memorandum of agreement; MARSOC = Marine Special Operations Command; NAVSPECWARCOM = Navy Special Warfare Command; NMOS = Necessary Military Occupational Specialty; NSWRON = Naval Special Warfare Squadron; O = officer; SEAL = Sea, Air, Land; SWCC = Special Warfare Combatant-Craft Crewman; USASOC = U.S. Army Special Operations Command; USMC = U.S. Marine Corps; USN = U.S. Navy; WO = warrant officer.
This appendix provides details on the construction of the survey instrument.

**Approach to the Survey Instrument Development**

Based on an analysis of the task description and available theoretical and empirical work on the integration of women and other out-groups into the military and other institutions, we identified six key themes to be explored in the survey:

1. cohesion
2. performance
3. readiness
4. morale
5. leadership and personnel management
6. general women in SOF issues.

We also identified seven sections for the survey, each of which we believed necessary to provide a well-rounded picture of beliefs and attitudes regarding the issue of women in SOF:

1. survey screening questions
2. general topical awareness and importance
3. experience working with military women downrange
4. preexisting attitudes about integrating women into previously closed SOF specialties
5. expectations regarding the results of integrating women into SOF
6. implementation advice
7. demographics.

To develop a pool of potential items for our instrument, we collected questions asked in previous RAND studies and other surveys that addressed the themes of women in the military, “Don’t Ask Don’t Tell (DADT),” and other related social attitudes.1 We also reviewed relevant

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1 Relevant past RAND survey work includes Rostker et al., 1993; Harrell and Miller, 1997; and National Defense Research Institute, 2010. Other surveys we reviewed were conducted by a wide range of organizations and institutions, including CBS News, TRADOC Analysis Center, Defense Equal Opportunity Management Institute, Pew Research Center, National Center for PTSD at the U.S. Department of Veterans Affairs, National Opinion Research Center at the University of Chicago, American National Election Studies project of the University of Michigan and Stanford University, and Quinnipac University.
scholarly research and collected additional candidate items for the survey that were published in peer-reviewed social science journal articles.

The initial collection effort yielded about 140 candidate questions for the survey, which, with our additional research into relevant scholarly work in the area, expanded the pool of items to about 300 candidate questions for the draft instrument.

To ensure a balanced survey and the availability of multiple items for each construct we were measuring, we constructed a 24-cell survey-design matrix defined by the six key themes and the four substantive sections (experience, attitudes, expectations, and implementation advice). Our initial planning target was a survey of about 100 mostly closed-ended questions that would take respondents about 20 minutes to complete and would, on average, entail about four questions in each cell of our survey-design matrix. After consultation with USSOCOM, this was reduced to a shorter instrument of about 50 questions that would take respondents about ten minutes to complete and would, on average, have about two questions in each cell.²

We organized the collected survey items into the survey-design matrix to facilitate the process of eliminating candidate questions from our instrument and generally balancing the questions across key themes and survey sections. Once the candidate survey items were organized in the matrix, we conducted more than a dozen rounds of reviews, in which two reviewers independently reviewed items related to each key theme and each survey section based on their ability to reliably address key policy issues. In each round, the reviewers compared their observations on item selection and discussed the relative merits of each identified item. As candidate items were selected for possible inclusion in the survey, the reviewers also discussed the standardization and refinement of question wording and measurement scales. This process led, initially, to a draft instrument of about 100 items and was subsequently repeated to achieve an instrument of the desired length. Once the candidate survey items were established, the proposed question order, skip logic, and scales were finalized in an instrument of 46 questions, including seven questions about the demographic background characteristics of respondents.

The draft survey instrument was also reviewed informally at various points by a number of RAND industrial-organizational (IO) psychologists and other psychologists,³ as well as several former and current SOF operators and military fellows at RAND. The instrument and approach were also formally reviewed by a senior IO psychologist.

The final instrument approved by our USSOCOM sponsors has six sections and addresses seven themes. The seven sections are

1. Screening questions: The screening section’s questions were designed to ensure that only individuals in the target population participated in the survey. Specifically, this survey was designed to be administered to individuals with the following characteristics:
   ◦ active duty or currently drilling or mobilized member of the National Guard or Reserve
   ◦ current incumbent in a USSOCOM level 2 specialty that has been closed to women by specialty.

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² USSOCOM expressed concern that its personnel were already subject to “survey fatigue” and that a 50-question instrument would be less onerous than a 100-question instrument.

³ Informal reviewers included RAND colleagues with backgrounds in social psychology, clinical psychology, IO psychology, political science, and education, as well as several Army Fellows at RAND. A formal review was provided by Larry Hanser, a senior IO psychologist. The sampling strategy was reviewed by Lou Mariano, a senior statistician.
2. Implementation section: The implementation section provided opportunities for participants to suggest actions that might help smooth the introduction of the policy change to open previously closed specialties to women. These questions were designed to provide useful insights and previously unconsidered options for USSOCOM leaders to consider during policy implementation.

3. Importance section: This section’s questions assessed the extent to which participants perceived the opening of previously closed SOF specialties to women to be an important topic. These questions considered different dimensions of attitude importance that are associated with attitude stability and strength. In terms of policy relevance, this section helped to assess how strong opinions on this topic might be and to inform command information, education, and training activities that support implementation. The dimensions assessed include:
   - frequency of thought about the issue
   - interest in information about the issue
   - frequency of talking about the issue.

4. Experience section: The experience section addressed participants’ attitudes and experiences regarding working with their current units and working with women in a combat environment. Experience has been shown to affect attitudes. As such, this section was included to facilitate better understanding of which experiences were associated with attitudes toward opening SOF specialties to women and with a more positive work environment. Understanding the association between experiences and current attitudes might permit the identification of audiences to target for increased education, training, and monitoring during the opening of SOF specialties to women. The policy relevance of this section lies in providing a basis for identifying opinions that did and did not build from direct experience, the latter of which were likely to be more fluid and less stable.

5. Expectations section: The expectations section was designed to illuminate participants’ outlooks regarding potential positive and negative consequences of opening previously closed SOF specialties to women. These items directly assessed attitudes toward this policy and its expected impacts, and the items were designed to identify areas of optimism or pessimism that might need to be addressed during implementation. USSOCOM leaders might use this information to understand and address respondents’ key concerns by developing policies that mute negative impacts, foster positive ones, and, where there are misperceptions, contribute to more-realistic or more-positive attitudes and expectations.

6. Demographics section: This section addressed characteristics that might be associated with attitudes and expectations regarding the opening of SOF specialties to women. For example, anecdotally, individuals have suggested that married SOF men (and their wives) might be more concerned with opening of specialties to women than unmarried SOF men. Further, responses might be associated with age or years of service, which has implications for recruitment, retention, personnel, and force-management policies. The data from these questions might also be important in reweighting the sample to compensate for nonresponse bias.

The experience, expectations, and implementation survey sections contain a set of common themes that are addressed across sections. Most of these themes have been prominent
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

in past scholarly and policy debates about the potential impacts of opening the force to previously excluded groups:

1. Performance: This theme addressed perceptions of current unit combat performance and expectations about impacts on individual and unit performance if women are integrated into specialties or units.
2. Readiness: This theme addressed perceptions of current unit combat readiness and expectations about potential impacts on readiness if women are integrated into specialties or units.
3. Cohesion: This theme addressed perceptions of two types of cohesion—task cohesion, which involves shared task goals, and social cohesion, which involves emotional and trust bonds among group members—that have been theorized to be associated with unit performance and that might be affected by the opening of SOF specialties to women.
4. Leadership: This theme addressed the leadership environment and the extent to which respondents believed various leadership actions might help to facilitate implementation of the policy to open previously closed SOF specialties to women.
5. Climate: This theme encompassed perceptions of the current and expected organizational climate in terms of the levels of sexism and sexual discrimination or harassment toward women. This might be helpful in targeting informational, educational, and training programs and informing personnel and force-management decisions.
6. Perceptions of women in SOF: This theme addressed various perceptions of the potential positive and negative implications of opening previously closed SOF specialties to women. These include
   - perceptions of the potential benefits and challenges of women entering previously closed SOF specialties and units
   - concerns regarding the impacts of physiological differences and health needs
   - general attitudes about having one’s specialty open to women and women joining one’s unit.4

Policy Questions Addressed

The final version of RAND’s Women in SOF Survey, approved by USSOCOM, consists of 46 questions, which were designed to provide USSOCOM with a broad understanding of operators’ experience, attitudes, and beliefs about the integration of women into USSOCOM SOF level 2 positions that have previously been closed to women, as well as possible policy actions that can foster positive outcomes with this change.

The survey aimed to provide detailed data about the differences across ranks and SOF service components in terms of outlooks toward the potential integration of women into SOF and the extent of possible resistance to such integration. In general, the main policy question that the survey data informed is: What perceptions and concerns of USSOCOM operators should be of interest to USSOCOM leaders as they implement the policy to integrate women into previously closed SOF specialties?

4 In agreement with our sponsor, the topic of potential effects on morale was removed from the survey to allow for a shortened instrument that did not diminish its scientific integrity.
Q. Do special operators generally favor or oppose policies to open their specialties and units to women?
Rationale: The basic orientation of respondents toward opening positions to women, whether favorable or unfavorable, will be a key indicator of the basic level of support or resistance USSOCOM leaders can expect from special operators.
Relevant questions and index construction: Q20–Q21.

Q. How important is the issue of integration of women in SOF to special operators?
Rationale: The importance of an issue has been shown to relate to the strength of the attitude and, in the present case, the potential strength of support or opposition for the policy change. In addition, the perceived importance of an issue is related to the likely stability of the attitude; if special operators think that this an unimportant issue, their support or opposition is likely to be quite weak.
Relevant questions and index construction: Q9, Q10.

Q. What do special operators believe might be the greatest benefits that might result from opening USSOCOM-controlled positions to women?
Rationale: The extent to which special operators can imagine benefits from the policy change will help in gauging support for the policy; their ideas might also be helpful to USSOCOM leaders in communications that tout potential positive outcomes that could offset special operators’ concerns about challenges.
Relevant questions and index construction: Q1, Q37, Q38.

Q. What do special operators believe might be the greatest challenges that USSOCOM leaders will face in opening USSOCOM-controlled positions to women?
Rationale: The degree of convergence or divergence on this question will provide a better idea of whether the success of efforts to explain and build support for the policy is likely to hinge on a small number of key issues or a much larger number of diffuse ones.
Relevant questions and index construction: Q2.

Q. What impacts do special operators expect on the following: unit performance, unit cohesion, unit trust, and leadership and personnel management?
Rationale: These dimensions are considered to be core aspects of high-performing SOF units, and concerns about any of them will need to be allayed or, if warranted, addressed through additional policy actions.
Relevant questions and index construction: Q13–Q19, Q26–Q35.

Q. What implementation actions do special operators believe that USSOCOM leaders should take to foster more-beneficial outcomes and address key challenges?
Rationale: Special operators might have recommendations or preexisting opinions regarding measures that can be taken to smooth the integration of women into SOF. These questions are designed to obtain special operators’ suggestions, assess common themes in recommendations regarding areas to address, and assess operators’ views on the efficacy of various policy actions.
Relevant questions and index construction: Q3, Q4–Q8, Q39.
Q. What preexisting attitudes do special operators have regarding women who might be integrated into their specialties?
Rationale: The basic orientation of respondents—positive or negative—toward women who might be integrated into SOF specialties will serve as another indicator of support for or resistance to the integration policy. If negative, this suggests that USSOCOM leaders need to take additional actions to address perceptions of the qualities and abilities of these women or, if the perceptions are accurate, take actions related to assessment, selection, qualification, and so on.
Relevant questions and index construction: Q22–Q25, Q36.

Q. What experience do special operators have working with military women?
Rationale: Positive experiences with members of out-groups might be associated with more-favorable attitudes toward the out-group; if special operators perceive that they had generally favorable experiences working with U.S. military women, they might have more-favorable attitudes toward the policy change. On the other hand, generally negative experiences working with U.S. military women could be harder to redress.
Relevant questions and index construction: Q11–Q12.

Q. How do responses to the above questions vary by key subgroup (e.g., service, unit, specialty, grade)?
Rationale: Certain groups—e.g., noncommissioned officers (NCOs) and midlevel officers—might be particularly important stakeholder groups in terms of successfully addressing challenges and fostering more-favorable outcomes.
Relevant questions: S1, S2, Q11, Q12, Q40–Q46.
This appendix provides the sampling-frame options for the Women in SOF survey.

As of March 2013, USSOCOM figures showed a total of 15,497 level 2 positions—that is, USSOCOM-controlled MOS, occupations, specialties, and career fields—that have been closed to women by specialty. These level 2 positions are broken out into nine distinct specialties, as described in Figure C.1.

To fully understand the magnitude and scope of the potential barriers and challenges to the inclusion of women in level 2 positions, we wanted to ensure an inclusive and comprehensive picture of the personnel currently serving in level 2 positions, taking into account differences across service components, specialties, ranks, and various other subgroups, not all of which can be anticipated a priori. That meant being able to provide statistically reliable results.

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Figure C.1
Incumbents in USSOCOM-Controlled Level 2 Positions

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1 Level 1 positions were closed by unit (USSOCOM, 2013). A more recent estimate of individuals in USSOCOM Level 2 positions, from the Defense Manpower Data Center’s (DMDC’s) Active Duty Master File (2013), is 16,658 personnel. Where appropriate, we present ranges that include both sources.
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

to distinguish between groups at the highest levels of granularity (i.e., by component, MOS, Primary Service Occupation Code, and grade), while hedging against a low response rate.2 We were also cognizant that the sponsor wanted a detailed understanding of the potential challenges and obstacles at the small-unit and team levels, which accentuated the need for a high level of granularity in findings. We explored alternative sampling frames that might achieve standard levels of statistical precision, while seeking to reduce the overall response burden on currently serving service members in USSOCOM level 2 positions.

We present in Table C.1 the estimated sample sizes that would meet the basic statistical criteria of a 95-percent confidence level and a confidence interval of plus or minus 3 percent for alternative sampling frames.3 The table presents the estimated base sample size that would be required to achieve standard levels of statistical precision, as well as the estimated sample sizes that would be needed to hedge against a 75- or 50-percent response rate.

As shown in the table, to achieve conventional levels of statistical precision in the survey results:

1. a random sample of the total population of level 2 positions would require about 1,000 respondents—twice that if we assume a response rate of 50 percent
2. a random sample of level 2 positions by component (i.e., AFSOC, USASOC, MARSOC, and NAVSPECWARCOM) would require 2,700 to 5,500 respondents

### Table C.1
Illustrative Estimated Required Sample Sizes by Sampling Frame Option

<table>
<thead>
<tr>
<th>Sampling Frame Option</th>
<th>Estimated Base Sample Size*</th>
<th>Sample Needed Assuming 75% Response Rate</th>
<th>Sample Needed Assuming 50% Response Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] USSOCOM level 2 positions</td>
<td>1,000</td>
<td>1,300</td>
<td>2,000</td>
</tr>
<tr>
<td>[2] By component (AFSOC, USASOC, MARSOC, NAVSPECWARCOM)</td>
<td>2,700–2,800</td>
<td>3,600–3,700</td>
<td>5,400–5,500</td>
</tr>
<tr>
<td>[3] By MOS/AFSC</td>
<td>4,000–4,100</td>
<td>5,400</td>
<td>8,100–8,200</td>
</tr>
<tr>
<td>[4] By MOS/AFSC and by Enlisted/WO/Officers</td>
<td>5,300</td>
<td>7,100</td>
<td>10,700</td>
</tr>
<tr>
<td>[5] By MOS/AFSC and by grade</td>
<td>10,400</td>
<td>13,800</td>
<td>**</td>
</tr>
<tr>
<td>[6] By Primary Service Occupation Code and by grade</td>
<td>12,800</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>[7] Census (100-percent sample)</td>
<td>15,500–16,600</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

NOTES: Estimated sample sizes rounded to the nearest 100. N/A = not applicable.
* Estimated required sample size to achieve a confidence level of 0.95 and a confidence interval of plus or minus 3 percent; calculated using the formula for sample size, with finite population correction, reported in Daniel, 1999. The first number in each range is the estimate based on the relevant total in USSOCOM, 2013, while the second number is the estimate based on totals from DMDC, 2013.
** Required sample size exceeds 100 percent of population and is impossible to attain.

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2 Primary Service Occupation Codes provide the next level of detail below the MOSs/AFSCs listed in Figure C.1.
3 The “Statistical Appendix” section describes the formula we used to calculate estimated sample sizes.
3. a random sample of positions by MOS/AFSC would require about 4,000 to 8,200 respondents
4. a random sample by MOS/AFSC and officers, warrant officers, and enlisted would require 5,300 to 10,700 respondents
5. a random sample by MOS/AFSC and grade would require a sample of 10,400 respondents of the full population
6. a random sample by Primary Service Occupation Code and grade would require 12,800 respondents of the full population
7. A census (100-percent sample) would draw from the entire estimated population of 15,500 to 16,600 personnel in USSOCOM level 2 positions.

Options 1 through 5 would achieve the desired level of statistical precision but would not generate results at the desired level of granularity (Primary Service Occupation Code, by grade). The option that would best meet that goal is option 6, which, to compensate for potential low response rates (75 percent and below), essentially becomes identical to option 7. This option—conducting a survey using a 100-percent sample of level 2 position holders—would best ensure our ability to compare and contrast results by detailed occupation code and grade, while also providing the best foundation for reaggregating results in various meaningful ways.4

Given that we recommended surveying all service members in USSOCOM level 2 positions, we took steps to minimize the survey burden on these service members, principally by designing a short survey instrument that should be able to be completed in about 20 minutes.

**Statistical Appendix**

Sample size estimates were generated for each cell in a sampling frame (e.g., for option 1, a single cell containing all USSOCOM level 2 personnel; for Option 6, the matrix created by Primary Service Occupation Codes by grade) in Microsoft Excel using the sample size formula with finite population correction described in Daniel (1999):

\[ n' = \frac{NZ^2 P(1-P)}{d^2(N-1) + Z^2 P(1-P)} \]

where  
\[
\begin{align*}
N &= \text{Population size}, \\
Z &= \text{Z statistic for a level of confidence}, \\
P &= \text{Expected proportion (If the prevalence is 20%, } P = 0.2), \text{ and} \\
d &= \text{Precision (If the precision is 5%, then } d = 0.05) \\
\end{align*}
\]

The calculation for each cell used the following parameters:

---

4 As a practical matter, even with a 100-percent sample, likely response rates below 50 percent would significantly reduce the statistical precision of estimates in each of the cells in the matrix for Primary Service Occupation Code by grade, requiring some level of aggregation. Of the 323 cells of this matrix that were currently populated, 241 required full 100-percent response rates to achieve the desired level of statistical precision in each cell, while each of the remaining cells required a response rate of greater than 50 percent. While a 100-percent sample or census would provide the best prospect for acquiring the desired detailed data, even in this case, some aggregation of results were clearly necessary.
• \( N \) = the number of personnel in the cell
• \( Z = 1.96 \), corresponding to a confidence level of 95 percent
• \( P = 0.5 \), providing a conservative estimate
• \( d = 0.03 \), corresponding to a confidence interval of plus or minus 3 percent.

These results were then summed across all of the cells in the matrix to generate an overall estimate of the required sample size for the sampling frame.
This appendix describes our rationale and attempts to reduce respondent burden and promote higher response rates in the Women in SOF survey. We gave careful consideration to survey design and implementation factors that past scholarship has shown are associated with burden reduction and higher response rates. These include:

• *The questionnaire will be shorter than the threshold where respondent fatigue typically sets in.* Survey researchers suggest that participants are more likely to respond to surveys that are no longer than 20 minutes, which translates to about 100 closed-ended questions; we are designing our instrument with fewer than 50 questions, and it will have a completion time of about ten minutes.

• *The web-based instrument will be readily accessible to respondents.* Web-based surveys are at least comparable to paper-based surveys in terms of response rates when all respondents have web access and have cost and methodological advantages over paper-based surveys; we accordingly plan to field a web-based survey. (The survey was hosted on a dedicated RAND server.)

• *Invitations will include language designed to increase response rates.* Use of clear and concise messages to make completion of the survey a more appealing proposition can also contribute to higher rates of participation. We, accordingly, design our survey invitations and reminders to provide the sort of language that has been shown to increase the perceived importance of survey topics and reduce the perceived burden of taking a survey, draw on respondents’ innate tendencies to want to be helpful when asked, and accent the reputation of the organization conducting the survey. (Invitations were sent by USSOCOM.)

• *Respondents will be given several reminders to complete the survey.* Providing several survey reminders has been shown to increase rates of participation; we plan for a total of four contacts to be sent by USSOCOM to respondents.

• *The questionnaire will largely consist of short, easy-to-answer items.* Closed-ended questions take less time to answer than longer ones, or open-ended questions; our survey instrument consists primarily of short, closed-ended questions.

### Survey Response Rate

Survey researchers seek to obtain information that accurately reflects the attitudes, experiences, and expectations of a given population (Dillman, Smyth, and Christian, 2009). Different factors can impede this goal. For example, nonresponse is one form of survey error that can reduce
survey accuracy. It occurs when there is a difference between those who do and do not respond to a survey in which they have been asked to participate, as well as when there is a difference between those who do and do not respond to certain items within a survey. Multiple assessments have been conducted to examine the survey design and implementation factors associated with increasing the survey response rate, which might decrease the potential for nonresponse error (Umbach, 2004). Among the numerous factors assessed, survey length, mode of implementation, the number and quality of contacts, and question structure and wording are some of the more commonly considered design elements.

**Survey Length**

Survey length (and perceived burden) might play an important role in influencing response rates. Generally, longer surveys are associated with lower response rates (Newell et al., 2004; Deutskens et al., 2004). Although a number of studies, using both mail and web-based surveys, support this proposition, the strength of the association between survey length and response rate appears to be moderate to weak (Porter, 2004; see also Craig and McCann, 1978). For example, a meta-analysis of military-only samples found a weak effect of survey length on response rate and concluded that the effect in this population might be “negligible (i.e., minimal practical significance)” (Parrish, 2007, p. 31).

To reduce the potential for survey length to influence participation decisions, surveys should be of reasonable length. Building from experiments that have varied survey length and examined the effect on response rates among civilian samples and from meta-analyses addressing the topic, a common recommendation is that a survey should take participants no longer than 20 minutes to complete (Umbach, 2004; Gunn, 2002). Other studies have suggested that surveys conducted with college students, such as Air Force Academy cadets, should take no longer than 13 minutes (Fan and Yan, 2010).

The amount of time participants use to complete a survey is related to the number of survey items and other features of the questionnaire and questionnaire items (Puleston, 2012). The average amount of time participants spend on each survey item can vary by characteristics of the survey, survey items, and population. However, survey practitioners suggest that the average amount of time to complete 100 closed-ended questions is approximately 12.5 to 20 minutes.1 To estimate the length of time that participants from a particular population will require to complete a specific survey, a pilot test of the survey using a small number of participants from the target population should be conducted.2

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1 One survey methodology website estimated that respondents can answer five closed-ended questions or two open-ended questions in one minute; see Sacks, 2010. A survey research firm estimated that respondents can answer eight simple closed-ended questions in a minute; see Versta Research, 2011.

2 One assumption might be that response quality significantly decreases as survey length increases. However, some research has challenged this assumption. For example, Deutskens et al. (2004, p. 33) found that “the length of the questionnaire [does] not have a negative effect on the quality of responses.”
Mode of Implementation

Surveys may be administered via the Web or in paper-based format. Web-based surveys have several methodological and financial advantages over paper-based surveys, but they are not without limitations, including the potential for a single survey to have a different appearance in different browsers. Further, response rates among a civilian population with variable access to the Internet might differ across the modes of survey implementation. However, research using populations in which all members were able to access the Internet found that the response rates to Web-based surveys were comparable to those of mailed paper-based surveys (Kaplowitz, Hadlock, and Levine, 2004; Kiernan et al., 2005).

Web-based and paper-based surveys might differ in the amount of time required by participants to complete the surveys. However, no known research has addressed differences between these modes in terms of number of minutes from survey start to completion. Because of their advantages, web-based surveys might be a preferred mode of survey implementation in many instances.

Contacting Participants

The number of times to contact potential participants and the design of these contacts can also influence survey response rates. Sending several contacts has been shown to increase survey response rates by up to 37 percent (Wygant et al., 2005). Following an initial contact, researchers suggest sending two to four survey reminders (Dillman, Smyth, and Christian, 2009). Guidelines regarding the timing of these contacts have not been firmly established. In terms of the content of these contacts, messages should be simple and concise, and participants should be informed of the approximate number of minutes required to complete the survey and the deadline for survey completion (Umbach, 2004). In addition, a brief invitation that accents the confidentiality of responses, the importance of the survey topic, the benefits of survey participation, the minimal burden of participation, and the reputability of the survey organization has been shown to be associated with higher response rates.

Question Structure and Wording

Research has shown that item nonresponse rates are associated with the characteristics of survey items, including the format, structure, and content of these items. Nonresponse rates can be reduced by limiting the number of open-ended questions and personal or organizationally sensitive questions. Combining similarly structured or worded questions into blocks can also

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3 In terms of data quality, web-based surveys appear to have comparable or higher data quality than mailed paper-based surveys. For more information, see Kwak and Radler, 2002.

4 See, for example, Heberlein and Baumgartner, 1978; Groves, Cialdini, and Couper, 1992; and Tourangeau and Plewes, 2013. Some research suggests that the effect of high topic salience might more than offset that of survey length. See Marcus et al., 2007.

reduce the number of words and cognitive burden of answering these questions (Tomaskovic-Devey, Leiter, and Thompson, 1995).

**Conclusion**

The Women in SOF Survey is designed to present a small burden to respondents—about ten minutes to answer fewer than 50 questions—while providing essential insights into respondents’ relevant experiences and views on a range of potential impacts, including unit performance, readiness, cohesion, order and discipline, and organizational climate. The survey will also provide essential information for designing education, training, information, and other efforts to promote positive outcomes and mute negative ones.
This appendix provides additional detail about key variables and constructed indexes used in our analyses.

**Q20. Do you favor or oppose the following? Opening your specialty to women**

This question was the principal dependent variable in our study. The question was preceded by the following preamble, which defined the meaning of *women* as follows:

By “women,” we mean U.S. military women who will have passed the admission and qualification standards for your specialty.

The question aimed to measure respondents’ opinions about women joining the primary job that respondents currently performed in SOF. It was assumed that the respondent interpreted the words *your specialty* to mean his primary military occupational specialty. The question was loosely modeled after similar items used in Harrell and Miller (1997). For example, one question from this study asked respondents, “Do you think women should be allowed to serve in your occupation/career field?”

Respondents were able to choose one of five choices in response to this question: “Strongly Oppose” (coded as a 1) “Somewhat Oppose” (coded as a 2), “Neither Oppose Nor Favor” (coded as a 3), “Somewhat Favor” (coded as a 4), and “Strongly Favor” (coded as a 5). Respondents who did not answer these questions we scored as missing.

**Q21. Do you favor or oppose the following? Opening your unit to women**

Although not the focus of the policy change, a second question was designed to provide a measure of the degree that respondents favored or opposed women joining their current SOF *units*, to enable comparisons between support and opposition for opening SOF specialties to women, on the one hand, and opening SOF units to women, on the other. Prior to the presentation of this question, the survey instrument defined *current unit* as follows:

1 The study team recoded these answer choices so that −2 represented “Strongly Oppose,” −1 represented “Somewhat Oppose,” 0 represented “Neither Oppose Nor Favor,” +1 represented “Somewhat Favor,” and +2 represented “Strongly Favor.”
By “unit,” we mean relevant small team entered, such as special tactics teams or detachment, Ranger element, MARSOC platoon, SEAL platoon, SWCC detachment] that you operate with in conducting combat missions.

This question also was loosely modeled after similar items used by Harrell and Miller (1997). For example, Q37 from their questionnaire for men asked respondents, “Are you worried about how to conduct yourself around women in your unit?” Q38 from this same questionnaire asked respondents, “How would you rank the women in your unit?”

Other surveys of military respondents have also used the term your unit in questions. For example, one question from the 2012 Workplace and Gender Relations Survey of Active Duty Members (DMDC, 2013, p. 100) asked respondents, “Overall, how well prepared is your unit to perform its wartime mission?” Similar question wording also has been used in academic research on military respondents’ attitudes and opinions (Ender, 2013; Posard, Hultquist, and Segal 2013). Put simply, it is common for surveys of American respondents to use the term your unit when asking questions about their primary combat group.

**The Importance of Standards (Q4 and Q5)**

Two questions asked respondents about the importance of establishing standards:

How important would each of the following be in successfully integrating women into SOF?

Q4. . . . establishing performance requirements that are the same for men and women in SOF?

Q5. . . . consistently enforcing standards of conduct that are the same for men and women in SOF?

Q4 asked respondents to rate how important they believed it was for SOF to establish gender-neutral requirements for job performance. It asked respondents to rate their opinions about establishing performance requirements, which is distinct from how the military would enforce these requirements. The survey did not explicitly define performance, meaning that respondents could interpret it to mean physical, mental, or other qualities that respondents believed are necessary to be in SOF. Thus, these questions represent respondent opinions about performance in its broader, conventional usage, rather than any specific sense of the word.

Q5 asked respondents to rate how important it was for SOF to consistently enforce standards, regardless of gender. This question measured respondents’ opinions on how the military would implement predefined standards for men and women in SOF. Standards of conduct were also not defined in more-specific terms.

Each of the two questions displayed the same answer choices for respondents. These choices ranged along a five-point scale, where 1 represented “Not Important At All,” 2 was “A Little Important,” 3 was “Somewhat Important,” 4 was “Quite Important,” and 5 was “Extremely Important.”
Standards Index
We constructed a standards index to create a composite of responses to Q4 and Q5 by computing the average between respondents’ answers for Q4 and Q5. Let us say, for example, that a respondent who took this survey selected the highest category for one question (5 = Extremely Important), but he chose the lowest category for the second question (1 = Not Important At All). The summation of these two values is six, and the index score for this respondent is three (6/2 = 3). That is how we constructed all indexes in this study.

The standards index had an acceptable level of internal consistency with a Cronbach’s alpha coefficient of 0.78. This coefficient means that there was a strong interrelationship between respondent answers to Q4 and Q5.²

Neither the standards index nor individual items Q4 and Q5 achieved statistical significance in our multivariate models, so both were dropped.

Q12. Please rate the quality of your working experience with U.S. military women in a combat environment
Studies find that expectations and evaluations of task performance vary by the observable features of people (Walker and Fennell, 1986). For example, studies find that gender is a social category that people associate with performance on gender-neutral tasks (Correll, 2001; Lucas, 2003). Merely knowing that someone is capable of performing well on tasks might counteract negative associations (Berger et al., 1992). More generally, evidence from research on the contact hypothesis shows that the quality of contact with people from out-groups might reduce biases against them held by those in in-groups (Pettigrew, 1998).

We measured quality of contact with a single question that asked respondents to rate the quality of their work experience with women in combat environments:

We would now like to ask you about your experience working with U.S. military women in a combat environment.

Q12. Please rate the quality of your working experience with U.S. military women in a combat environment.

The item gave the respondent six response choices, where 0 represented “I have not worked in a combat environment,” 1 was “Extremely Negative,” 2 was “Somewhat Negative,” 3 was “Neither Negative Nor Positive,” 4 was “Somewhat Positive,” and 5 was “Extremely Positive.” We recoded respondents who did not select an answer as missing data, and we dropped those who said that they had not had any experience working with women in a combat environment from our multivariate models.

² The formula for calculating this coefficient is $\alpha = \frac{N \times C}{(v) + (N-1) \times c}$, where $\alpha$ represents the Cronbach’s alpha coefficient of reliability, $N$ is the number of items, $C$ is the average interitem covariance among the items in this index, and $v$ is the average variance for this index.
Expectations Regarding Women’s Capabilities (Q23, Q24, and Q25)

We define expectations as anticipatory beliefs about others’ abilities and capacities to accomplish relevant tasks (Berger and Webster, 2006). Three items in this survey asked respondents for their level of agreement or disagreement regarding statements about women’s capabilities for SOF:

Please state your level of agreement or disagreement with the following statements:

Q23. Women will have the physical strength and stamina to be effective in my specialty.

Q24. Women will have the mental toughness to be effective in my specialty.

Q25. Women will be capable of handling the demands of my specialty.

Q23 measured two dimensions of physical demands for SOF operators. The first is the physical strength necessary to exert oneself in bodily activities (e.g., running or lifting objects). The second is stamina, defined here as the degree that women can exert themselves in physically demanding activities over time. Both dimensions are necessary for performance in SOF, given the high level of physical demands these respondents endure for prolonged periods.

Q24 asked respondents to rate their level of agreement or disagreement that women would have the mental toughness to perform effectively in respondents’ specialties. This question did not give respondents a specific definition of mental toughness. Thus, respondent ratings on this item represent general opinions about women’s mental resilience to perform effectively in SOF.

Finally, Q25 asked respondents to rate their perceptions of women’s capabilities for handling the overall demands of respondents’ specialties. This question represents respondents’ general ratings about women’s capabilities to perform in SOF.

Each of these three questions gave respondents the same answer choices. Respondents could choose one of five answers using a five-point scale, where 1 represented “Strongly Disagree,” 2 was “Somewhat Disagree,” 3 was “Neither Agree Nor Disagree,” 4 was “Somewhat Agree,” and 5 was “Strongly Agree.” We recoded the scales for each question, where −2 represented “Strongly Disagree,” −1 was “Somewhat Disagree,” 0 was “Neither Agree Nor Disagree,” +1 was “Somewhat Agree,” and +2 was “Strongly Agree.” We coded respondents who did not select any of these answers as missing data. Below are details for each of these questions and the index that we constructed.

Expected Capabilities Index

Our expected capabilities index is the average between respondent answers in Q23, Q24, and Q25. This index has an acceptable level of internal consistency, with a Cronbach’s alpha coefficient of 0.85. It is important to note that questions within this index are not measures of actual abilities or capacities of women who might join SOF; rather, the index measures expectations that respondents have formed about women’s capabilities, which might or might not be based on actual experience working with women in a combat environment.
Task Cohesion (Q13, Q17, Q28, and Q33)

We conceive of task cohesion as the degree to which respondents share the same goals for their groups (MacCoun, Kier, and Belkin, 2006; MacCoun, 1993). Early in the survey, respondents are asked about current levels of task cohesion in their units, and later in this survey, respondents answered similar questions about their expectations for task cohesion in their units if women joined.

Task cohesion in the current unit was assessed with the following items:

Please rate the following aspects of your current unit:

Q13. The extent to which your unit members work together to accomplish the mission.

Q17. My unit is united in trying to accomplish its missions.

Later in the survey, the survey posed an analogous pair of questions regarding their expectations about a future hypothesized unit that included women:

If women are assigned to your current unit, what are your expectations about the following?

Q28. The extent to which your unit members will work together to accomplish the mission.

Q33. Men and women in my unit will be united in trying to accomplish missions.

For the first question in each pair (Q13 and Q28), respondents answered using a five-point scale, where 1 represented “Very Low,” 2 was “Low,” 3 was “Neither High Nor Low,” 4 was “High,” and 5 was “Very High.” We recoded these scales so that −2 represented “Very Low,” −1 was “Low,” 0 was “Neither High Nor Low,” +1 was “High,” and +2 was “Very High.” We recoded respondents who did not choose an answer as missing data.

For Q17 and Q33, respondents also used a five-point scale, but they were asked to rate their level of agreement or disagreement with statements about task cohesion, as follows: 1 represented “Strongly Disagree,” 2 was “Disagree,” 3 was “Neither Agree Nor Disagree,” 4 was “Agree,” and 5 was “Strongly Agree.” We also recoded these scales so that −2 represented “Strongly Disagree,” −1 was “Disagree,” 0 was “Neither Agree Nor Disagree,” +1 was “Agree,” and +2 was “Strongly Agree.” We recoded values for respondents who did not choose an answer as missing data.

We constructed difference scores to capture respondents’ expectations regarding the change from their current ratings of task cohesion to a hypothesized future in which women join these units. We did this by subtracting respondents’ current ratings for task cohesion from their expected ratings if these units were gender-integrated. The first difference score was a measure of respondents’ expected change in the degree that members of their units would work together if women joined. This was constructed by subtracting respondent answers to Q13 from Q28.

The second difference score measures respondents’ expectations of change in the degree to which their unit would be united in accomplishing relevant missions. We constructed this second variable by subtracting Q17 from Q33.

Finally, we constructed a task cohesion difference index that took an average of these difference scores to capture overall respondent expectations for task cohesion in gender-integrated
Social Cohesion (Q14, Q18, Q29, and Q34)

Some scholars propose that task-relevant cohesion is distinct from social forms of cohesion (MacCoun, Kier, and Belkin, 2006); others disagree, suggesting that this distinction is ill-conceived (Siebold, 2013).³

In light of this lack of agreement among scholars, we took a neutral position, deciding to instrument for the concept in our survey but remaining agnostic as to whether the concept would prove to be relevant to explaining support or opposition to opening SOF specialties.

We broadly defined social cohesion as the degree to which respondents who work together on tasks also like each other. According to this treatment, task and social cohesion represent distinct concepts. The former involves the extent that respondents work together to successfully complete some collective task. Social cohesion, in comparison, is the degree these respondents like working with each other (MacCoun, Kier, and Belkin, 2006). Put simply, social cohesion has qualities of interpersonal attraction between respondents in the same unit.

We included four items on social cohesion in our survey, two eliciting information on social cohesion in the current unit and two with a parallel construction eliciting information on social cohesion in an hypothesized future unit that included women:

Please state your level of agreement or disagreement with the following statements about your current unit.

Q13. The extent to which your unit members are like a family.

Q18. Most members of my unit socialize when off-duty.

If women are assigned to my current unit, what are your expectations about the following?

Q29. The extent to which your unit members will be like a family.

Q34. Most men and women in my unit will socialize when off-duty.

We then constructed social cohesion difference scores by subtracting the current unit assessment from the future unit assessment (i.e., Q29 minus Q13, and Q34 minus Q18), and we constructed a social cohesion difference index that took the average of these differences. This index only had a modest level of interreliability, with a Cronbach’s alpha coefficient of 0.58, below the 0.70 or higher that generally is considered sufficient for this coefficient (Cortina, 1993). Thus, the interreliability for our social cohesion falls short of this standard. Accordingly, we dropped the social cohesion difference index from our multivariate models and instead used the individual difference scores for being like a family and socializing when off-duty.

³ For a more detailed discussion of this debate, see Chapter Four in the main report, Szayna et al., 2016.
Unit Trust (Q15, Q16, Q31, and Q32)

The command structure of SOF is unique in that it relies on small, cohesive units that engage in highly specialized missions where respondents employ limited force projection (Shelton, 1997). These missions often present unique dangers of death or injury to individuals, requiring extraordinary levels of trust among respondents. The subject of trust is accordingly a recurring one within the SOF community, but one that has not been examined very closely by scholars. Although the survey did not explicitly define trust for respondents, we conceived of trust as a system that provides security to individuals for their expected futures, constituted by the others (Lewis and Weigert, 1985).

Please rate the following aspects of your current unit:

Q15. The level of trust among members in your unit.

Q16. Your level of trust for members in your unit.

If women are assigned to your current unit, what are your expectations about the following?

Q31. The level of trust among members in your unit.

Q32. Your level of trust for members in your unit.

All of these questions used the same five-point scale, where 1 represented “Very Low,” 2 was “Low,” 3 was “Neither High Nor Low,” 4 was “High,” and 5 was “Very High.” We recoded these scales so that −2 represented “Very Low,” −1 was “Low,” 0 was “Neither High Nor Low,” +1 was “High,” and +2 was “Very High.” We also recoded values for respondents who did not choose an answer as missing data.

As before, we constructed two new difference scores that measured expectations of trust, less current levels of trust (Q31 minus Q15, and Q32 minus Q16), and we then averaged these differences to construct a unit trust difference index. This index had an acceptable level of interreliability, with a Cronbach’s alpha coefficient of 0.94.

The Availability of Leaders for Conflict Resolution (Q19 and Q35)

There is considerable evidence that leadership is an important factor for the morale and well-being of respondents (Segal and Bourg, 2002; Jacobs and Sanders, 2005). This survey had two questions that asked respondents about the level of support they received from leaders of their units. These questions did not explicitly define leader. Thus, respondents might have interpreted leader narrowly (e.g., leaders of their primary combat units) or broadly (e.g., leaders of SOF).

Respondents were asked to state their level of agreement or disagreement with the following two statements:

Please state your level of agreement or disagreement with the following statements about your current unit.
Q19. I can go to unit leaders for help if I have a problem or concern regarding conflicts between members of my unit.

If women are assigned to my current unit . . .

Q35. I will be able to go unit leaders for help if I have a problem or concern regarding women members of my unit.

Both questions used the same five-point scale, where 1 represented “Strongly Disagree,” 2 was “Somewhat Disagree,” 3 was “Neither Agree Nor Disagree,” 4 was “Somewhat Agree,” and 5 was “Strongly Agree.” We recoded values for respondents who did not choose an answer as missing data. Next, we subtracted values for Q19 from values to Q20. This created a measure of expected changes in the availability of leaders for conflict resolution should women join SOF, relative to current levels of support.

Years of Service (Q40)

Q40 asked respondents: “In what year did you first enter active duty U.S. military service? (Enter Year).” We estimated each respondent’s years of service by subtracting the year he indicated he first entered active duty U.S. military service from the year of our study, 2014.

Rank Group (Q41)

Q41 asked respondents, “What is your current pay grade?” We recoded response to this question into six rank groups, as follows:

1. E-1 to E-4: enlisted
2. E-5 to E-6: NCO
3. E-7 to E-9: senior noncommissioned officer
4. W-1 to W-5: WO
5. O-1 to O-3: junior commissioned officer
6. O-4 to O-5: field grade commissioned officer
7. O-6+: senior commissioned officer.

Currently Married (Q43)

Q43 asked respondents, “What is your current marital status?” The potential responses were: (1) now married, (2) widowed, (3) divorced, (4) separated, (5) never married, and (6) civil commitment or union. We created a binary variable for currently married in which we recoded option 1 (now married) as a 1 (currently married), and all other responses as a 0.
**Extreme Negative Response Index**

Answering survey questions involves time and cognitive effort by the respondent. The respondent must read the content of a question, form an opinion based on a range of relevant considerations, and communicate this opinion using a rating scale. It is far easier for respondents to select extreme answers to questions, even if there is variation in their opinions. Moreover, respondents who receive numerous requests to complete surveys might suffer from survey fatigue (Miller et al., 2011, p. 52). This could lead some respondents to select extreme answers because it is easier than taking the time to think about the content of questions. *Extreme response styles* is the phrase used to describe respondents who select extreme positive or negative points on scales for questions, independent of the content of these questions (Greenleaf, 1992).

We calculated a measure of extreme response by counting up the number of times each respondent chose the most extreme negative response out of a total of eight questions, from two sections of this survey, as follows:

- If women are assigned to your current unit, what are your expectations about the following?
  - Q28. The extent to which your unit members will work together to accomplish the mission.
  - Q29. The extent to which your unit members will be like a family.
  - Q30. The level of trust among members in your unit.
  - Q31. Your level of trust for members in your unit.
  - Q32. Your level of trust for women in your unit.
  - If women are assigned to my current unit . . .
    - Q33. Men and women in my unit will be united in trying to accomplish missions.
    - Q34. Most men and women in my unit will socialize when off-duty.
    - Q35. I will be able to go unit leaders for help if I have a problem or concern regarding women members of my unit.

  The first set of questions used the same five-point scale, where 1 represented “Very Low,” 2 was “Low,” 3 was “Neither High Nor Low,” 4 was “High,” and 5 was “Very High.” We recoded values for respondents who did not choose an answer as *missing data*.

  For the second set of questions, respondents could choose one of five answers using a five-point scale, where 1 represented “Strongly Disagree,” 2 was “Somewhat Disagree,” 3 was “Neither Agree Nor Disagree,” 4 was “Somewhat Agree,” and 5 represented “Strongly Agree.” We recoded values for respondents who did not select any of these answers as *missing data*.

  We constructed dichotomous variables for each of the seven questions listed above, where 1 represented respondents who selected the most extreme value (“Very Low” or “Strongly Disagree”) and summed the number of extreme negative responses for each respondent. We then created a dichotomous variable in which respondents who had two or more extreme negative responses were given a 1 (“consistently negative responder”), and those who had 0 or 1 extreme negative responses were coded as “other respondents.”
The 78.2 percent of our sample who had either no or only one extreme negative answer to the eight questions were coded as "other respondents," whereas the remaining 21.8 percent were coded as "consistently negative responders." As two or more extreme negative responses was a very low bar for a respondent qualifying as a "consistently negative responder," we conducted sensitivity analyses to ascertain whether higher thresholds (three, four, and so on) for identifying "consistently negative responders" affected our multivariate statistical results. The consistently negative response index was not statistically significant, an outcome that held regardless of the threshold used for defining consistently negative responders.
This appendix presents the informed consent statement contained at the beginning of the Women in SOF survey.
In January 2013, the DoD eliminated the 1994 Direct Ground Combat Definition and Assignment rule that excluded women from assignment to units and positions whose primary mission is to engage in direct ground combat. Then-Secretary of Defense Panetta ordered the Military Departments and USSOCOM to develop and implement validated, gender-neutral occupational standards, notify Congress of their decisions, and then open units and positions that had been closed to women.

To inform USSOCOM leaders and facilitate implementation of this guidance, Admiral William McRaven, Commander of USSOCOM, asked the RAND Corporation to conduct a survey of those serving in nine occupational specialties controlled by USSOCOM that have been closed to women by specialty:

1. AFSOC: Special Tactics Officer (13CX); Special Operations Weather Team Officer (15WXC); Combat Control – Enlisted (1C2XX); and Special Operations Weather Team – Enlisted (1W0XX)
2. USASOC: Infantryman – Ranger Regiment (11X); Special Forces (18XX)
3. MARSOC: Special Operations Critical Skills Operators (037X)
4. NAVSPECWARCOM: SEAL Officer/Warrant Officer/Enlisted (1130/7150/5326); SWCC Warrant Officer/Enlisted (7170/5352)

We are inviting you to complete a survey on your views of potential impacts of opening up SOF specialties to women. This survey contains questions regarding experiences, expectations, and advice relevant to opening up SOF specialties that have been closed to women. All responses will be completely confidential. We expect the survey to take less than 10 minutes to complete.

WHAT IS RAND? The RAND Corporation is a non-profit research institution that conducts research for the Office of the Secretary of Defense (OSD), the Joint Staff, the Services, and other Department of Defense research sponsors. Information about RAND is available at www.rand.org.

WHY IS RAND DOING A SURVEY? USSOCOM asked RAND to conduct research examining the implications of the decision to open SOF specialties and combat units to women. This survey is one part of this research that aims to assess the potential implications of opening SOF specialties to women on unit cohesion, readiness, and performance.

HOW WAS I CHosen? You were asked to complete this survey because you are a member of one of the USSOCOM-controlled occupational specialties that have been closed to women by specialty.

WHAT DOES PARTICIPATION ENTAIL? The web-based survey is expected to take less than 10 minutes to complete.

DO I HAVE TO PARTICIPATE? RAND has asked you to participate because USSOCOM leaders are very interested in understanding your views on the opening of SOF specialties that have been closed to women, and hope that the study findings can help to inform crucial USSOCOM decisions. The survey is however completely voluntary, and there is no penalty if you choose not to respond, or decide not to complete the survey; your commanders will not know whether you participated.

WHAT WILL BE DONE WITH MY SURVEY RESPONSES? RAND will treat your answers as strictly confidential. Your responses will not be connected with the email address used to request your participation. Your responses will be combined with information from other respondents to report the attitudes, opinions, and expectations of SOF service members. Comments from open-ended (write-in) questions may be reported word for word, but never with identifiable information. No one in your command or any other official will see your survey results, nor will RAND release any data that could identify you to anyone in your Service, other Department of Defense agencies, or anyone else.

If you have any questions or comments about this RAND research, please contact the project leaders, Thomas Szayna at 310-393-0411 x7758, szayna@rand.org or Bill Welser at 310-393-0411 x8435, bwelser@rand.org. You may also contact the RAND Human Subjects Protection Committee at 310-393-0411 x6939 or hspcadmin@rand.org.

I have read the information and I want to continue. (Check One Box)

1. YES 2 CONTINUE TO S1
2. NO 3 EXIT THE INSTRUMENT

DRAFT Dated March 19, 2014
This appendix presents the Women in SOF survey instrument in its entirety.
Screening Questions

This survey is designed to be administered to active duty U.S. military men who are currently in certain occupational specialties that have been closed to women. The following questions are designed to assess whether this survey is applicable to you.

S1. Are you: (Check One Box)
1. □ Active duty military member → CONTINUE TO S2
2. □ Currently drilling or mobilized member of the Guard or Reserve → CONTINUE TO S2
3. □ Neither active duty nor drilling/mobilized member of the Guard or Reserve → SKIP TO S3

S2. Is your occupational specialty: (Check One Box)
1. □ AFSOC: Special Tactics Officer (13CX) → SKIP TO Q1
2. □ AFSOC: Special Operations Weather Team – Officer (15WXC) → SKIP TO Q1
3. □ AFSOC: Combat Control – Enlisted (1C2XX) → SKIP TO Q1
4. □ AFSOC: Special Operations Weather Team – Enlisted (1W0X2) → SKIP TO Q1
5. □ USASOC: Infantryman – Ranger Rgt (11X) → SKIP TO Q1
6. □ USASOC: Special Forces (18XX) → SKIP TO Q1
7. □ MARSOC: Special Operations/Critical Skills Operators (037X) → SKIP TO Q1
8. □ NAVSPECWARCOM: SEAL Officer/Warrant Officer/Enlisted (1130/7150/5326) → SKIP TO Q1
9. □ NAVSPECWARCOM: SWCC Warrant Officer/Enlisted (7170/5352) → SKIP TO Q1
10. □ None of the Above → CONTINUE TO S3

ALL RESPONDENTS WHO DO NOT QUALIFY GO TO S3

S3. Thank you very much for your interest in the study. At this time we are not able to include you in this survey. For further information about RAND research or to follow results of this study when they are published see www.rand.org. → EXIT THE INSTRUMENT
RESTRICTED DRAFT – DO NOT CITE

Questions on Implementation

We would now like to ask you several questions regarding your current unit. By “unit,” we mean the [Programmed: Relevant small team entered, such as Special Tactics team or detachment, Ranger element, MARSOC platoon, SEAL platoon, SWCC detachment] that you operate with in conducting combat missions.

Q1. What do you think might be the greatest benefit of opening SOF specialties to women? (Write Response on Lines)

Q2. What is your greatest concern about opening SOF specialties to women? (Write Response on Lines)

Q3. During the opening of SOF specialties to women, what action(s) should be taken to address this concern? (Write Response on Lines)

How important would each of the following be in successfully integrating women into SOF?

<table>
<thead>
<tr>
<th>How important is . . .</th>
<th>Not Important At All</th>
<th>A Little Important</th>
<th>Somewhat Important</th>
<th>Quite Important</th>
<th>Extremely Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4. . . . .establishing performance requirements that are the same for men and women in SOF?</td>
<td>1 2 3 4 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q5. . . . .consistently enforcing standards of conduct that are the same for men and women in SOF?</td>
<td>1 2 3 4 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q6. . . . .providing education and training on how to work with SOF women?</td>
<td>1 2 3 4 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q7. . . . .leaders consistently engaging personnel during the integration of women into SOF?</td>
<td>1 2 3 4 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q8. . . . .selecting SOF men who are better suited to working in a mixed gender environment?</td>
<td>1 2 3 4 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Questions on the Importance of the Women in SOF Issue

How much have you...

<table>
<thead>
<tr>
<th>Question</th>
<th>Not At All</th>
<th>Very Little</th>
<th>Some</th>
<th>Quite a Lot</th>
<th>A Great Deal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q9…paid attention to news and other information about opening SOF specialties to women?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Q10….thought about the issue of opening SOF specialties to women?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>
RESTRICTED DRAFT – DO NOT CITE

Questions on Experience Working with Women

We would now like to ask you about your experience working with U.S. military women in a combat environment.

Q11. With how many U.S. military women have you worked in a combat environment?

<table>
<thead>
<tr>
<th>I have not worked in a combat environment</th>
<th>No women</th>
<th>1-3 women</th>
<th>4-6 women</th>
<th>7-9 women</th>
<th>10 or more women</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q12. Please rate the quality of your working experience with U.S. military women in a combat environment.

<table>
<thead>
<tr>
<th>I have not worked in a combat environment</th>
<th>Extremely Negative</th>
<th>Somewhat Negative</th>
<th>Neither Negative nor Positive</th>
<th>Somewhat Positive</th>
<th>Extremely Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

We would now like to ask you several questions regarding your current unit. By “unit,” we mean the [Programmed: Relevant small team entered, such as Special Tactics team or detachment, Ranger element, MARSOC platoon, SEAL platoon, SWCC detachment] that you operate with in conducting combat missions.

Please rate the following aspects of your current unit.

<table>
<thead>
<tr>
<th>Q13. The extent to which your unit members work together to accomplish the mission</th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q14. The extent to which your unit members are like a family</th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q15. The level of trust among members in your unit</th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q16. Your level of trust for members in your unit</th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>Strongly Disagree</td>
<td>Somewhat Disagree</td>
<td>Neither Agree Nor Disagree</td>
<td>Somewhat Agree</td>
<td>Strongly Agree</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>-------------------</td>
<td>---------------------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Q17. My unit is united in trying to accomplish its missions.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Q18. Most members of my unit socialize when off-duty.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Q19. I can go to unit leaders for help if I have a problem or concern regarding conflicts between members of my unit.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>
RESTRICTED DRAFT – DO NOT CITE

Expectations on Working with Women in SOF

We would now like to ask you several questions about opening SOF specialties to women. By “women,” we mean U.S. military women who will have passed the admission and qualification standards for your specialty.

Do you favor or oppose the following?

<table>
<thead>
<tr>
<th>Q20. Opening your specialty to women</th>
<th>Strongly Oppose</th>
<th>Somewhat Oppose</th>
<th>Neither Oppose Nor Favor</th>
<th>Somewhat Favor</th>
<th>Strongly Favor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q21. Opening your unit to women</th>
<th>Strongly Oppose</th>
<th>Somewhat Oppose</th>
<th>Neither Oppose Nor Favor</th>
<th>Somewhat Favor</th>
<th>Strongly Favor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Q22. How worried or not are you that the physical job standards of your specialty will be reduced during the opening of SOF specialties to women?

<table>
<thead>
<tr>
<th>Not At All Worried</th>
<th>A Little Worried</th>
<th>Somewhat Worried</th>
<th>Quite Worried</th>
<th>Extremely Worried</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Please state your level of agreement or disagreement with the following statements:

<table>
<thead>
<tr>
<th>Q23. Women will have the physical strength and stamina to be effective in my specialty.</th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q24. Women will have the mental toughness to be effective in my specialty.</th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q25. Women will be capable of handling the demands of my specialty.</th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

We would now like to ask you several questions regarding expectation for your current unit. By “unit,” we mean the [Programmed: Relevant small team entered, such as Special Tactics team or detachment, Ranger element, MARSOC platoon, SEAL platoon, SWCC detachment] that you operate with in conducting combat missions.

If women are assigned to your current unit . . .

Q26. . . . how do you think the order and discipline in your unit will be affected?

<table>
<thead>
<tr>
<th>Greatly Decrease</th>
<th>Somewhat Decrease</th>
<th>No Change</th>
<th>Somewhat Increase</th>
<th>Greatly Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

DRAFT Dated March 19, 2014
Q27. . . . how often do you expect these women will be treated unfairly in your unit?

<table>
<thead>
<tr>
<th></th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Frequently</th>
<th>All of the Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

If women are assigned to your current unit, what are your expectations about the following?

Q28. The extent to which your unit members will work together to accomplish the mission

<table>
<thead>
<tr>
<th></th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q29. The extent to which your unit members will be like a family

<table>
<thead>
<tr>
<th></th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q30. The level of trust among members in your unit

<table>
<thead>
<tr>
<th></th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q31. Your level of trust for members in your unit

<table>
<thead>
<tr>
<th></th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q32. Your level of trust for women in your unit

<table>
<thead>
<tr>
<th></th>
<th>Very Low</th>
<th>Low</th>
<th>Neither High nor Low</th>
<th>High</th>
<th>Very High</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

If women are assigned to my current unit...

Q33. Men and women in my unit will be united in trying to accomplish missions.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q34. Most men and women in my unit will socialize when off-duty.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q35. I will be able to go to unit leaders for help if I have a problem or concern regarding women members of my unit.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q36. . . . If they pull their share of the load, men will accept them as equals.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q37. . . . it will improve my unit's ability to conduct sensitive, low-profile operations (e.g., unconventional warfare).

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Q38. . . . it will improve my unit's ability to communicate with segments of foreign populations.

<table>
<thead>
<tr>
<th></th>
<th>Strongly Disagree</th>
<th>Somewhat Disagree</th>
<th>Neither Agree Nor Disagree</th>
<th>Somewhat Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>
Q39. Do you have any additional thoughts or suggestions regarding the opening of SOF specialties to women? (Write Response on Lines)
RESTRICTED DRAFT – DO NOT CITE

General Demographics

Q40. In what year did you first enter active duty U.S. military service? (Enter Year) ____________

Q41. What is your current pay grade?
1 □ E1
2 □ E2
3 □ E3
4 □ E4
5 □ E5
6 □ E6
7 □ E7
8 □ E8
9 □ E9
10 □ W1
11 □ W2
12 □ W3
13 □ W4
14 □ W5
15 □ O-1/O-1E
16 □ O-2/O-2E
17 □ O-3/O-3E
18 □ O4
19 □ O5
20 □ O6 or above

Q42. How old are you? (Enter Age) ____________

Q43. What is your current marital status?
1 □ Now Married
2 □ Widowed
3 □ Divorced
4 □ Separated
5 □ Never Married
6 □ Civil Commitment or Union
RESTRICTED DRAFT - DO NOT CITE

Q44. What is the highest degree or level of education that you have completed?
1. ☐ Less than high school
2. ☐ High school diploma/GED
3. ☐ Some college credit, but LESS than 1 year of college credit
4. ☐ 1 or more years of college credit, no degree
5. ☐ Associate’s degree (for example, AA, AS)
6. ☐ Bachelor’s degree (for example, BA, BS)
7. ☐ Master’s degree (for example, MA, MS, MEng, MEd, MSW, MBA)
8. ☐ Professional degree beyond a bachelor’s degree (for example, MD, DDS, DVM, LLB, JD)
9. ☐ Doctorate degree (for example, PhD, EdD)

Q45. What is your race?
1. ☐ White
2. ☐ Black or African American
3. ☐ American Indian or Alaska Native
4. ☐ Asian Indian
5. ☐ Chinese
6. ☐ Filipino
7. ☐ Other Asian (for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on)
8. ☐ Native Hawaiian
9. ☐ Guamanian or Chamorro
10. ☐ Samoan
11. ☐ Other Pacific Islander (for example, Fijian, Tongan, and so on)

Q46. Are you of Hispanic, Latino, or Spanish origin?
1. ☐ No, not of Hispanic, Latino, or Spanish origin
2. ☐ Yes, Cuban
3. ☐ Yes, Mexican, Mexican American, Chicano
4. ☐ Yes, Puerto Rican
5. ☐ Yes, another Hispanic, Latino, or Spanish origin - For example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on
This appendix provides the survey recruitment materials provided to USSOCOM leadership to announce, invite, and remind SOF personnel to take the survey.

**DRAFT Language for ADM McRaven Email Announcement**

Subject: RAND Survey on Opening Combat Positions to Women

As you probably know, USSOCOM is currently reviewing performance and other job standards associated with a number of USSOCOM SOF ground combat positions. This review will help inform my recommendations on the opening of these positions to women.

I am writing to ask you to share your experiences and views on the matter of opening USSOCOM ground combat positions to women by participating in a confidential survey that is being conducted on behalf of USSOCOM by the RAND Corporation. RAND is a highly-respected nonprofit institution that helps improve policy and decision-making through objective research and analysis. The survey will give you the opportunity to make your voice heard on this important issue.

The survey is completely voluntary, and there is no penalty if you choose not to respond, or decide not to complete the survey. No one in your command or any other officials will see your survey results, nor will RAND release any data that could identify you to anyone in your Service, other Department of Defense agencies, or anyone else.

The survey should take less than 10 minutes to complete. By taking a few minutes to share your thoughts and opinions on opening SOF specialties to women, you will have both the opportunity to inform my thinking, and to provide me with your best advice on implementing this policy.

I am attaching RAND’s invitation to participate to this email, while the following link will take you directly to a website where you can complete the survey:

[URL]

I would request that you complete the survey as soon as possible, as the survey will be concluding on [DATE].

Sincerely,

ADM William H. McRaven
Commander, USSOCOM

Attachment: RAND Invitation to Participate in USSOCOM Women In SOF Survey
DRAFT Language for Initial RAND Invitation

Subject: Invitation to Participate in USSOCOM Women In SOF Survey

We are inviting you to participate in a RAND survey of USSOCOM specialties that may be opened to qualified women. This survey is being conducted by the RAND Corporation, a nonprofit institution that helps improve policy and decision-making through objective research and analysis.

As ADM McRaven stated in his email, he is interested in learning your views on this important policy change, so that he can take them into account in making recommendations on opening these positions to women.

The survey is completely voluntary, and there is no penalty if you choose not to respond, or decide not to complete the survey. **No one in your command or any other officials will see your survey results, nor will RAND release any data that could identify you to anyone in your Service, other Department of Defense agencies, or anyone else.**

The survey is relatively short, and should take less than 10 minutes to complete. We request that you complete the survey as soon as possible, as the survey will be concluding on [DATE]. It can be accessed at the following link:

[URL]

If you have any questions or comments about this RAND research, please contact the project leaders, Thomas Szayna at 310-393-0411 x7758, szayna@rand.org or Bill Welser at 310-393-0411 x6435, bwelser@rand.org. You may also contact the RAND Human Subjects Protection Committee at 310-393-0411 x6939 or hspcadmin@rand.org.

We greatly appreciate your completing the survey, and look forward to receiving your responses.

Sincerely,

Thomas Szayna and William Welser IV
Principal Investigators
The RAND Corporation
Subject: REMINDER: Invitation to Participate in USSOCOM Women In SOF Survey

We are following up on ADM McRaven’s earlier communication (attached) requesting that you participate in a survey of USSOCOM specialties that may be opened to qualified women. This survey is being conducted by the RAND Corporation, a nonprofit institution that helps improve policy and decision-making through objective research and analysis.

As ADM McRaven stated in his email, he is interested in learning your views on this important policy change so that he can take them into account in making recommendations on opening these positions to women.

The survey is completely voluntary, and there is no penalty if you choose not to respond, or decide not to complete the survey. No one in your command or any other officials will see your survey results, nor will RAND release any data that could identify you to anyone in your Service, other Department of Defense agencies, or anyone else.

If you have not already completed the survey, we would be grateful if you would please do so as soon as possible, as the survey will be concluding on [DATE]. The survey is relatively short, and should take less than 10 minutes to complete. It can be accessed at the following link:

[URL]

If you have any questions or comments about this RAND research, please contact the project leaders, Thomas Szayna at 310-393-0411 x7758, szayna@rand.org or Bill Welser at 310-393-0411 x6435, bwelser@rand.org. You may also contact the RAND Human Subjects Protection Committee at 310-393-0411 x6939 or hspcadmin@rand.org.

We greatly appreciate your completing the survey, and look forward to receiving your responses.

Sincerely,

Thomas Szayna and William Welser IV
Principal Investigators
The RAND Corporation
DRAFT Language for Final ADM McRaven Email Reminder

Subject: FINAL REMINDER: RAND Survey on Opening Combat Positions to Women

As part of my effort to consult as widely as possible within USSOCOM before making recommendations on the opening of previously closed USSOCOM ground combat positions to women, I am again writing to ask you to share your experiences and views on the matter by participating in a confidential survey. This survey is being conducted on behalf of USSOCOM by the RAND Corporation, a highly-respected nonprofit institution that helps improve policy and decision-making through objective research and analysis.

The survey is completely voluntary, and there is no penalty if you choose not to respond, or decide not to complete the survey. **No one in your command or any other officials will see your survey results, nor will RAND release any data that could identify you to anyone in your Service, other Department of Defense agencies, or anyone else.**

If you have already completed the RAND survey, you have my thanks. If not, I would request that you complete the survey as soon as possible, as the survey will be concluding on [DATE]. The survey is relatively short, and it should take less than 10 minutes to complete. It can be accessed at the following link:

[URL]

This survey provides a unique opportunity for you to share your views and inform my thinking, and to provide me with your best advice and recommendations for implementing this policy. I greatly appreciate your contribution to this important effort.

Sincerely,

ADM William H. McRaven
Commander, USSOCOM

Attachment: RAND Invitation to Participate in USSOCOM Women In SOF Survey
APPENDIX I

Women in SOF Survey Review of Scientific Merit

This appendix provides the memorandum certifying the scientific merit of the Women in SOF survey.
Memorandum For The Record

Subject: Approval of the Scientific Merit of Proposed “Women In SOF” Survey for United States Special Operations Command (USSOCOM)

From: Lawrence M. Hanser, Ph.D., Senior Behavioral Scientist

Date: January 8, 2014

This memorandum for the record documents my findings from an independent scientific review of the “Women In SOF” survey being developed by a RAND research team led by Thomas Szyna and William Welser IV for the U.S. Special Operations Command.

My review was commissioned by John Winkler, Program Director for the Forces and Resources Policy program in the RAND Corporation’s National Security Research Division, and completed in December 2013. I was not, and am not, a member of the research team planning or conducting the actual research.

Based upon technical and other documentation provided to me, discussions with researchers on the study team, and some modifications to the survey protocol and other supporting materials in response to my suggestions, I approve the scientific and analytic soundness of the proposed survey research effort.

In the course of my review, I made several recommendations for improving the study, including: (1) making some wording and other changes to items in the survey instrument to better ensure analytic rigor and clarity; (2) in the analysis of sample size requirements, providing information on the percentages of respondents that would be required to achieve the desired level of statistical precision and confidence; and (3) making some wording changes to the informed consent statement that respondents will encounter when they first reach RAND’s web portal. The study team satisfactorily addressed each of these recommendations, leading me to approve the overall scientific merit of the proposed research.

Sincerely,

Lawrence M. Hanser, Ph.D.
Senior Behavioral Scientist
RAND Corporation
This appendix provides information about the implementation and response rate to the Women in SOF survey.

We collected a total of 7,618 completed surveys, for an overall response rate of 50.0 percent. Below we discuss the details of the response flow and the response rate breakdown across the various elements of the survey population: members of four AFSOC Special Tactics Team specialties, Army Rangers and Special Forces, MARSOC operators, and NAVSPECWARCOM SEAL platoons and SWCC detachment members.

Response Flow

As discussed above, RAND provided USSOCOM with language for the email survey invitation and email survey reminders. RAND also provided USSOCOM with guidance regarding the timing of the email survey reminders. Because all email communication to the sample population came from USSOCOM, we cannot be certain of the exact timing that invitations and reminders were sent or received. We can, however, make educated guesses based on the pattern of responses received (see Figure J.1).

We know that the initial invitations were sent on May 15, 2014, and the date that the first web survey hits were recorded. Based on the pattern of responses received, we believe that reminders were sent on or around June 14, and again on or around June 24. The last completed surveys were accepted on Wednesday, July 16, for a total of 63 data collection days.

The survey had a slower-than-expected start in receiving responses, as a result of a technical problem with RAND’s computing system that was detected around 2:30 p.m. Pacific time on May 15, the day the initial invitations went out. All potential respondents were prevented from accessing the web survey until the issue was resolved, and a “please come back later” banner was posted on the website to encourage respondents to make another attempt to take the survey once the problem was resolved. The technical issue was resolved at approximately 6:00 a.m. Pacific time on May 16. We know that there were 136 attempts to access the web survey during the time that the survey was down. We cannot know how many of these attempts were multiple attempts made by the same potential respondent, or how many of these potential respondents actually came back and accessed the site after the technical issue was resolved.

As discussed, respondents were from nine distinct specialties, but for the purposes of tracking completed surveys, the four AFSOC specialties were collapsed because of their small sizes, giving us six separate subcategories. Although the raw numbers are not comparable...
because of vast differences in population sizes, we tracked cumulative survey completes by element to look for differences in patterns of completion over time.

As shown in Figure J.2, the response flow started off generally the same across subcategories: a slow start because of the technical issue and then an increase in completes a few days into the survey period. Responses evened out across subcategories from approximately May 21 through June 14, with the exception of a noticeable increase in responses from SEALs and MARSOC on May 27. SEALs also showed an increase on May 30, and SWCC members had a slight increase on June 1. We saw increased responses from the three largest subcategories (Special Forces, SEALs, and Rangers) on approximately June 14 and again on approximately June 25, leading us to suspect that those were dates on which email reminders were sent. The three smaller subcategories (SWCC, MARSOC, and AFSOC) showed tiny increases around June 14 but no change around June 25. In fact, MARSOC and AFSOC showed minimal increases in survey responses for the last two to three weeks of data collection.

Response Rates by Population Subcategory

As mentioned above, the overall response rate was 50.1 percent at the conclusion of data collection. The response rates for the six subcategories of the survey population are shown in Table J.1.

These response rates are a simple calculation of the total number of respondents in a subcategory divided by the total number of completed surveys received from that subcategory. Although the calculation of more-intricate response rates is possible for some studies, it is difficult in this case for several reasons. Because the email correspondence was handled by USSOCOM, we cannot track noncontact (undeliverable) cases, which are used to calculate some
kinds of response rates. Further, web surveys do not allow for tracking refusals (respondents who considered participation but actively decided not to) versus noncontacts (respondents who never read the email invitation).

Response rates across SOF elements ranged from a low of 17.3 percent from the four AFSOC categories to a high of 71.9 percent from the Rangers. Differences in response rates across the SOF elements could be a result of several factors that might have differed by subcategory, including any or all of the following:

- level of interest in the research topic
- level of support or encouragement for participation in the survey from senior command
• number of reminder emails received
• survey fatigue because of other recent surveys that respondents had been asked to complete.¹

Table J.2 compares the population and the raw sample on the percentages in a matrix defined by SOF element and rank group; the number in each cell is the percentage of the total. As shown, the sample percentages are very close to the population percentages. In fact, the correlation between the two matrixes is 0.95.

Table J.2
Comparison of Population and Sample by SOF Element and Rank Group

<table>
<thead>
<tr>
<th>Element</th>
<th>E1-E4</th>
<th>E5-E6</th>
<th>E7-E9</th>
<th>Officers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSOC</td>
<td>1.1</td>
<td>2.1</td>
<td>0.8</td>
<td>0.7</td>
<td>4.6</td>
</tr>
<tr>
<td>Rangers</td>
<td>9.2</td>
<td>4.9</td>
<td>1.4</td>
<td>1.3</td>
<td>16.7</td>
</tr>
<tr>
<td>Special Forces</td>
<td>13.7</td>
<td>23.6</td>
<td>9.4</td>
<td>46.7</td>
<td></td>
</tr>
<tr>
<td>MARSOC</td>
<td>3.3</td>
<td>1.4</td>
<td>0.6</td>
<td>5.4</td>
<td></td>
</tr>
<tr>
<td>SEAL</td>
<td>0.5</td>
<td>10.0</td>
<td>4.7</td>
<td>6.2</td>
<td>21.4</td>
</tr>
<tr>
<td>SWCC</td>
<td>0.3</td>
<td>3.3</td>
<td>1.4</td>
<td>0.1</td>
<td>5.2</td>
</tr>
<tr>
<td>Total</td>
<td>11.1</td>
<td>37.3</td>
<td>33.4</td>
<td>18.3</td>
<td>100.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element</th>
<th>E1-E4</th>
<th>E5-E6</th>
<th>E7-E9</th>
<th>Officers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSOC</td>
<td>0.2</td>
<td>0.6</td>
<td>0.4</td>
<td>0.3</td>
<td>1.6</td>
</tr>
<tr>
<td>Rangers</td>
<td>12.0</td>
<td>7.3</td>
<td>2.2</td>
<td>2.5</td>
<td>24.0</td>
</tr>
<tr>
<td>Special Forces</td>
<td>8.1</td>
<td>20.4</td>
<td>9.3</td>
<td>37.8</td>
<td></td>
</tr>
<tr>
<td>Marines</td>
<td>3.0</td>
<td>1.5</td>
<td>0.8</td>
<td>5.3</td>
<td></td>
</tr>
<tr>
<td>SEALs</td>
<td>0.6</td>
<td>10.7</td>
<td>5.9</td>
<td>7.2</td>
<td>24.3</td>
</tr>
<tr>
<td>SWCC</td>
<td>0.6</td>
<td>4.1</td>
<td>2.0</td>
<td>0.3</td>
<td>7.0</td>
</tr>
<tr>
<td>Total</td>
<td>13.4</td>
<td>33.9</td>
<td>32.3</td>
<td>20.4</td>
<td>100.0</td>
</tr>
</tbody>
</table>

¹ We understand, for example, that AFSOC had conducted a survey on the topic of opening SOF positions to women just prior to our survey.
This appendix presents charts detailing the marginal percentages for each of the questions in the survey and the constructed indexes. All results are reweighted by SOF element and rank group.

Figure K.1
Q4. Importance of Establishing Common Performance Requirements
Figure K.2
Q5. Importance of Establishing Common Standards of Conduct

Figure K.3
Q6. How Important Is . . . Providing Education and Training on How to Work with SOF Women?
Figure K.4
Q7. How Important Is... Leaders Consistently Engaging Personnel During the Integration of Women into SOF?

Figure K.5
Q8. How important Is... Selecting SOF Men Who Are Better Suited to Working in a Mixed-Gender Environment?
Figure K.6
Q9. How Much Have You . . . Paid Attention to News and Other Information About Opening SOF Specialties to Women?

Figure K.7
Q10. How Much Have You . . . Thought About the Issue of Opening SOF Specialties to Women?
Figure K.8
Q11. How Many U.S. Military Women Have You Worked with in a Combat Environment?

Figure K.9
Q12. Please Rate the Quality of Your Working Experience with U.S. Military Women in a Combat Environment
Figure K.10
Q13. The Extent to Which Your Unit Members Work Together to Accomplish the Mission

Figure K.11
Q14. The Extent to Which Your Unit Members Are Like a Family
Figure K.12
Q15. The Level of Trust Among Members in Your Unit

Figure K.13
Q16. Your Level of Trust for Members in Your Unit
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

Figure K.14
Q17. My Unit Is United in Trying to Accomplish Its Missions

Figure K.15
Q18. Most Members of My Unit Socialize When Off-Duty
Figure K.16
Q19. I Can Go to Unit Leaders for Help If I Have a Problem or Concern Regarding Conflicts Between Members of My Unit

Figure K.17
Q20. Do You Favor or Oppose the Following? Opening Your Specialty to Women
Figure K.18
Q21. Do You Favor or Oppose the Following? Opening Your Unit to Women

- Strongly oppose: 57.6%
- Somewhat oppose: 13.3%
- Neither oppose nor favor: 15.4%
- Somewhat favor: 7.7%
- Strongly favor: 6.0%

Figure K.19
Q22. How Worried or Not Are You That the Physical Job Standards of Your Specialty Will Be Reduced During the Opening of SOF Specialties to Women?

- Extremely worried: 73.1%
- Quite worried: 14.6%
- Somewhat worried: 6.2%
- A little worried: 3.2%
- Not at all worried: 2.9%
Figure K.20
Q23. Women Will Have the Physical Strength and Stamina to Be Effective in My Specialty

Figure K.21
Q24. Women Will Have the Mental Toughness to Be Effective in My Specialty
Figure K.22
Q25. Women Will Be Capable of Handling the Demands of My Specialty

Figure K.23
Q26. If Women Are Assigned to Your Unit . . . How Do You Think the Order and Discipline in Your Unit Will Be Affected?
Figure K.24
Q27. If Women Are Assigned to Your Unit . . . How Often Do You Expect These Women Will Be Treated Unfairly in Your Unit?

Figure K.25
Q28. If Women Are Assigned to Your Unit . . . the Extent to Which Your Unit Members Will Work Together to Accomplish the Mission
Figure K.26
Q29. If Women Are Assigned to Your Unit . . . the Extent to Which Your Unit Members Will Be Like a Family

Figure K.27
Q30. If Women Are Assigned to Your Unit . . . the Level of Trust Among Members in Your Unit
Figure K.28
Q31. If Women Are Assigned to Your Unit . . . Your Level of Trust for Members in Your Unit

Figure K.29
Q32. If Women Are Assigned to Your Unit . . . Your Level of Trust for Women in Your Unit
Figure K.30
Q33. If Women Are Assigned to Your Unit . . . Men and Women in My Unit Will Be United in Trying to Accomplish Mission

![Bar Chart]

Figure K.31
Q34. If Women Are Assigned to Your Unit . . . Most Men and Women in My Unit Will Socialize When Off-Duty

![Bar Chart]
Figure K.32
Q35. If Women Are Assigned to Your Unit . . . I Will Be Able to Go to Unit Leaders for Help If I Have a Problem or Concern Regarding Women Members of My Unit

Figure K.33
Q36. If Women Are Assigned to Your Unit . . . If They Pull Their Share of the Load, Men Will Accept Them as Equals
Figure K.34
Q37. If Women Are Assigned to Your Unit . . . It Will Improve My Unit’s Ability to Conduct Sensitive, Low-Profile Operations (e.g., unconventional warfare)

Figure K.35
Q38. If Women Are Assigned to Your Unit . . . It Will Improve My Unit’s Ability to Communicate with Segments of Foreign Populations
Figure K.36
Q41. Rank Grouping

Figure K.37
Q43. Marital Status
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

Figure K.38
Q44. Education

Figure K.39
Q45. Race
Figure K.40
Q46. Ethnicity

Figure K.41
SOF Element
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

Figure K.42
Capabilities Index (Q23, Q24, and Q25)

Figure K.43
Importance Index
Figure K.44
Task Cohesion Difference Index (Unit Climate with Women—Current Unit Climate)

Figure K.45
Social Cohesion Difference Index (Unit Climate with Women—Current Unit Climate)
Figure K.46
Trust Difference Index (Unit Climate with Women—Current Unit Climate)

Figure K.47
Leadership Difference Index (Leaders in Units with Women—Current Leaders)
Figure K.48
Consistently Negative Responses Index
APPENDIX L
Women in SOF Survey: Descriptive Statistics

This appendix reports descriptive statistics for each of the questions in our survey.

Table L.1
Basic Descriptive Statistics for Survey Questions

<table>
<thead>
<tr>
<th>Question</th>
<th>Mean</th>
<th>Median</th>
<th>Mode</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4. Importance: same performance requirements</td>
<td>4.82</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q5. Importance: same standards of conduct</td>
<td>4.86</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q6. Importance: education and training</td>
<td>3.03</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q7. Importance: leaders consistently engaging</td>
<td>3.33</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q8. Importance: selecting SOF men for mixed gender</td>
<td>2.21</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q9. How much paid attention to news and information</td>
<td>3.54</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q10. Amount thought about issue</td>
<td>3.80</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q11. Quantity of working experience with U.S. military women</td>
<td>2.77</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Q12. Quality of working experience with U.S. military women</td>
<td>2.06</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Q13. Current unit: extent unit members work together</td>
<td>4.84</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q14. Current unit: extent unit members are like a family</td>
<td>4.64</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q15. Current unit: level of trust among unit members</td>
<td>4.74</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q16. Current unit: level of trust for unit members</td>
<td>4.73</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q17. Current unit: unit united in accomplishing missions</td>
<td>4.87</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q18. Current unit: most unit members socialize when off-duty</td>
<td>4.49</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q19. Current unit: can go to unit leaders to resolve conflicts</td>
<td>4.59</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q20. Favor or oppose opening specialty to women</td>
<td>1.48</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q21. Favor or oppose opening unit to women</td>
<td>1.91</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q22. Worry performance standards will be lowered</td>
<td>4.52</td>
<td>5</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q23. Women will have physical strength and stamina</td>
<td>1.67</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q24. Women will have mental toughness</td>
<td>2.18</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q25. Women will be capable of job demands</td>
<td>1.71</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q26. Expectation: order and discipline</td>
<td>1.97</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Question</td>
<td>Mean</td>
<td>Median</td>
<td>Mode</td>
<td>Minimum</td>
<td>Maximum</td>
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<td>-------------------------------------------------------------------------</td>
<td>------</td>
<td>--------</td>
<td>------</td>
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<td>---------</td>
</tr>
<tr>
<td>Q27. Expectation: how often treated unfairly</td>
<td>2.89</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q28. Expectation: extent unit members work together</td>
<td>3.58</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q29. Expectation: extent unit members like a family</td>
<td>3.04</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q30. Expectation: level trust among unit members</td>
<td>3.04</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q31. Expectation: level of trust for unit members</td>
<td>3.21</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q32. Expectation: level of trust for women in unit</td>
<td>2.45</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q33. Expectation: men and women will be united</td>
<td>3.21</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q34. Expectation: men and women will socialize</td>
<td>3.02</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q35. Expectation: will be able to go to unit leaders</td>
<td>3.11</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q36. Expectation: if pull share of load will be accepted</td>
<td>2.93</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q37. Expectation: will improve sensitive, low-profile operations</td>
<td>2.77</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Q38. Expectation: will improve communication with foreign</td>
<td>2.97</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Q40. Service years</td>
<td>11.15</td>
<td>10</td>
<td>6</td>
<td>0</td>
<td>52</td>
</tr>
<tr>
<td>Q42. Age</td>
<td>31.79</td>
<td>30</td>
<td>29</td>
<td>18</td>
<td>75</td>
</tr>
<tr>
<td>Q44. Education</td>
<td>4.63</td>
<td>5</td>
<td>6</td>
<td>1</td>
<td>9</td>
</tr>
</tbody>
</table>

NOTE: All estimates are based on weighted sample data.
Content Analysis of Responses to Open-Ended Questions

We analyzed responses to the four open-ended questions from a number of different perspectives, including qualitative content analysis, automated linguistic analysis, and automated concordance analysis. Each of these approaches relied on counting words, concepts, and themes in the open-ended responses. To provide an overview of the content included in the four open-ended questions, we provide a word-cloud visualization. A word cloud is an image composed of words used in a particular text, in which the size of each word indicates its frequency or importance. Word clouds are useful for conveying, in the form of a simple visualization, quantitative information about word usage in a text.

Figure M.1 presents a word cloud of the most frequently used terms in responses to the four open-ended questions in the survey, after stripping out articles (e.g., the) and other high-frequency, low-meaning words. The entries in the word cloud echo many of the key findings of the automated linguistic analyses and the automated content analyses, but they do so in a more intuitive and compact form. As the figure shows, women was the most frequently mentioned word in responses to our four open-ended questions (29,647 mentions in total, including both woman and women). Rounding out the top ten meaningful terms were will (16,982 mentions), not (16,717 mentions), I (15,770 mentions), SOF (12,104 mentions), would (10,336 mentions), they (9,848 mentions), standard or standards (12,285 mentions), we (9,142 mentions), and men (7,370 mentions).

Most interesting, perhaps, is a cluster of terms used by respondents that relate to women’s capabilities (e.g., able, physical), the importance of standards (e.g., standards, standard) the basis for these standards (e.g., combat, mission), requirements for meeting these standards (e.g., training), and references to possible changes (e.g., change). Although we only had two closed-ended questions that asked specifically about standards, the word cloud shows that this was in fact one of the most significant themes in responses to the open-ended questions, a fact that could well have been missed absent the effort to calculate frequencies and portray them in the word cloud.

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1 We report raw counts rather than percentages of total terms used because substantive words are very rare in typical discourse and are greatly exceeded by nonsubstantive terms, so they typically compose only a very small percentage of total words used. Open-ended responses included a total of 1,350,034 words, meaning that, whereas the word the occurred 69,288 times (5.1 percent of the total) and the word to occurred 50,881 times (3.8 percent) as a percentage of total words, the word women composed only 1.95 percent of total words, while the word men composed only 0.55 percent.
It also may be inferred from the word cloud, for example, that the recurring use of the word *I* connotes that respondents were speaking from a personal perspective, rather than a general point of view; the use of the terms *will* and *would* reflect efforts by respondents to project future outcomes or consequences of opening specialties, and using more confident language than, for example, *could* or *might*; the heavy use of the term *not*—and *no* and *don’t* as well—connotes heavy negation and opposition.

Other elements of the word cloud also speak to the policy issue of women in SOF (e.g., *women* and *woman, female* and *females*, *men* and *male, SOF, special* and *operations,* and *specialties*), references to SOF teams (e.g., *team* and *teams, unit* and *units*), personal viewpoints (e.g., *I, my, you*), insider-outsider language (e.g., *we, they,* and *them, our, community*), expectations (e.g., *will, would*), explanations of reasoning (e.g., *because*), desirable and undesirable actions (e.g., *should, don’t*), and negative or cautionary views (*not, no, concern*).

When combined with the other survey and focus group data, as well as the automated text analyses and qualitative content analyses, the overall (word) picture that is painted reinforces the impression of a collective view that is, at best, decidedly cautionary, and, at worst, oppositional.
Approach to Content Analysis of Responses to Open-Ended Questions

This section describes, in detail, how we coded the responses to open-ended questions on the survey.

Coding of Question 1: What do you think might be the greatest benefit of opening SOF specialties to women?

Categories

None or No Benefits
Responses coded into this category expressed that there would be no benefits to opening SOF specialties to women. Responses might have listed additional concerns, but a response had to include a statement such as “None,” “There are no benefits,” or something similar to be included here.

Increased Cultural Access
A response was coded into this category if it described benefits for incorporating women because of the ability to of women to work with other women in foreign cultures, especially in cultures where public interaction between men and women is looked down on. In contrast to the human intelligence (HUMINT) and intelligence category (description below), “cultural access” includes all instances of increased situational cultural access, including nonintelligence and nonclandestine missions. Many responses might have been double coded with “HUMINT/intelligence and clandestine.”

This is an example of an included response:

Men and women act and behave differently. There could be opportunities where a woman is more effective than a man at dealing with host nation or partner nation personnel, or even enemy personnel. Specifically, women may be more effective at dealing with other women or young children, especially since some cultures do not look favorably upon men speaking to women that are not their family members.

Explanation: The respondent notes that the ability to deal with women and young children could be enhanced by allowing women in SOF.

HUMINT/Intelligence and Clandestine
Responses binned in this category expressed that utilizing women in the collection of intelligence (especially in HUMINT) or other clandestine activities would be beneficial, and, in many cases, this was seen as highly beneficial or explicitly supported. Types of responses binned into this category include those that stated that:

• Women can access certain parts of culture that men cannot, especially in societies where interactions between men and women in public is frowned upon, and this access would be beneficial in collecting intelligence (note: responses that described the ability of women to access parts of culture were coded in “cultural access” in all cases—only if this access was specifically said to be beneficial to intelligence collection was it coded here).
• SOF men traveling alone do not blend into public well, while incorporating women and men as teams, under the cover of a couple, would be significantly more effective.
• Women are less threatening than men.
• Women can be seen as “natural collectors.”

This is an example of an included response:

There are operational circumstances where gender can make a difference, both ways. When using a woman can offend someone you are dealing with and you would choose not to use a woman to deal with an individual, or when by using a woman to deal with a situation her gender will play in your favor. While conducting counter intelligence interviews with [M]uslims, we found we were often able to obtain more information and receive more truthful information when utilizing a female interpreter. Also having a female on an objective to deal with females can be very advantageous. Further, in dealing with source operations, depending on the target, using a female can obtain results that would not be possible with a male.

This is an example of an included response:

Access and placement into denied areas under cover.

Attachment/Support Roles
Responses included in this bin describe potential benefits for utilizing women in attachments or support roles. Included responses might have noted current benefits of women in these roles and noted benefits might exist for opening more attachment or support roles to women, generally on a mission-by-mission basis.

Unique Perspective/Diversity
Respondents coded into this category noted that incorporating women into SOF could bring a unique perspective or improve diversity; additionally, responses might have stated something indicative of this—e.g., that the addition of women “might expand our ability to solve problems,” or the addition of women might “get us thinking in a different way.”

Miscellaneous
Responses included in this category either described both unique benefits and statements that were unclear, either in meaning or motivation, to the coder.

Missing
Responses included in this bin did not give an answer to this question.

Increased Pool of SOF
Responses included in this category described an increased number of SOF applicants.

Explicit Support/Approval for Women in Specialist Roles
Responses coded here included explicit statements of support or approval for allowing women in specialist roles. An explicit statement of support must have included some kind of statement implying, without any doubt or ambiguity, that the respondent supported the accession of women into SOF specialties.
Explicit Opposition to Women in Specialist Roles

Responses coded here included explicit statements of opposition to allowing women in specialist roles. An explicit statement of opposition must have included some kind of statement implying, without any doubt or ambiguity, that the respondent opposed the accession of women into SOF specialties. These responses might have included statements expressing opposition to specific roles (e.g., a U.S. Army Special Forces operator expressing opposition to including women as a Series-18); statements affirming that the current roles of women in SOF should not be expanded; or statements that stated that women should “only” be in support roles, not specialties. Responses that expressed negative sentiment were not included.

This is an example of an included response:

There would be NO benefit to opening SOF specialties to women. I’ve had combat experience with women on CA [civil affairs] Teams and CST’s [cultural support teams]. The benefit of women in these roles is minimal, if any. (Especially in Afghanistan). Women SHOULD NOT work in the 11 or 18 series MOS’s [Military Occupational Specialties].

Explanation: The respondent stated, “Women SHOULD NOT work in the 11 or 18 series MOS’s,” which is an ambiguous statement of opposition to women in SOF specialties. This would additionally be coded under “none/no benefits.”

This is an example of an excluded response:

There will be ZERO benefit. The question should be [“]Do you think there even IS a benefit to opening SOF specialties to women,” to which I would answer with an emphatic NO! (Please do not skew future surveys). The introduction of women to the SEAL platoon, will CRITICALLY degrade productivity, platoon morale, mission focus, mission effectiveness, partner force interaction, and platoon camaraderie. Additionally, the introduction of women to the SEAL platoon will endanger the lives and health of the male SEAL operators within that platoon. The atmosphere of a SEAL platoon is that of aggression, and a no-fail attitude capable of achieving any task, which is NOT complemented with the introduction of females to the platoon. The mere presence of a woman would negatively alter the mindset of SEAL operators. The physical inability of a woman would severely hinder the capabilities of the platoon and would endanger the lives of teammates. Most partner forces (esp Arab) won’t work with women.

Explanation: Although it appears likely that the respondent opposes the accession of women into SOF specialties, there is no direct statement stating “this should not happen,” or “women should not be in SOF specialties,” or anything qualitatively similar. This would be coded under multiple categories, including “none/no benefits.”

Explicit Support/Approval for Women in Unit

Responses coded here included explicit statements of support or approval for allowing women into the respondent’s current unit. An explicit statement of support must have included some kind of statement implying, without any doubt or ambiguity, that the respondent supported the accession of women into his core SOF operational unit (including Air Force and AFSOC special tactics teams, Army Special Forces operational detachments, Army Rangers, MARSOC platoons, Navy SEAL platoons, and Navy SWCC detachments). For example, a few respondents expressed support for women in SOF specialties—and potentially their own women-only teams—but stated that women should be left out of the respondents’ teams (for example, an
Operational Detachment–Alpha [ODA] or SEAL platoon). These would have been described as statements of opposition to women in the unit.

An example of an included response is not available

This is an example of an excluded response:

They can be great enablers as Female engagement teams, CA, or PSYOPS [psychological operations]. But they have no place in a team room. We all know this but nobody has the balls to say it. We know it’s going to ruin team cohesion, which in turn is going to greatly hinder the accomplishment of the mission. Do you really think an SFODA [Special Forces ODA] is a politically correct environment? We are hunter killers, we are coarse, we bleed, we get blown up, we fight together. And we do the same with our HN [host nation] counterparts. At the end of the day we want to crack a beer and talk, joke about very unpolitically correct things. They are not going to feel part of the team. They will feel alienated, and they will be frustrated, and they will be angry. And before you know it the whole team is falling apart and tabs are getting pulled over a goddamn SHARP [Sexual Harassment/Assault Response and Prevention] investigation. I will get out as soon as my contract is up if women serve in Special Forces. You’ve spent tens of millions training us, we have a good thing, please don’t f-ck it up.

Explanation: The respondent noted that women can be “great enablers as Female engagements teams”—or on their own teams. The respondent then continues to state, “[T]hey have no place in a team room.” It is clear from the response that the writer does not feel that women should not be placed in Special Forces operational detachments.

Explicit Opposition to Women in Unit

Responses coded here included explicit statements of opposition to allowing women into parts of units. Furthermore, these were not double coded with opposition to “explicit opposition to women in specialist roles”; it is assumed that, since unit members require specialist roles, any opposition to women in SOF specialties implies opposition to women in-unit. An explicit statement of opposition must have included some kind of statement implying—where the respondent goes out of his way to make note using deliberate, unambiguous language—that the respondent opposed the accession of women into his unit, or any similar units. These responses might have included statements expressing opposition to specific units (e.g., a SEAL operator expressing opposition to women becoming SEALs, or mentioning “combat-related units”); statements affirming that the current roles of women in SOF should not be expanded; or statements that stated women should “only” be in support roles, not specialties. Responses that expressed negative sentiment were not included.

This is an example of an included response:

As a SEAL, there would not be great benefits. Dealing with unit integrity, political views, special treatment, and drama would cripple the platoon. In my opinion, women should be in SOF, but strictly as a support role. They are already forward deployed with platoons in small firebases.

Explanation: The respondent noted that “women should be in SOF,” but then continues to deliver an absolute statement, “but strictly as a support role,” indicating—that through the use of strictly, that women should not be on teams.

This is an additional example of an included response:
The only benefit would be the addition of a woman to use in a situation where we may have to interact with women in other cultures such as a MEDCAP [Medical Civil Action Program]. There are also some examples where they can be used for intelligence collection. Other than that I have seen no other time where there would be more of a benefit to have a woman on a detachment. At best they should continue to be attachments to ODAs and not organic members.

**Explanation:** The respondent presented a situational benefit for the accession of women into SOF, but goes out of his way to note that “at best they should continue to be attachments to ODAs and not organic members,” where the statement “not organic members” is taken as a statement of opposition to women as members of an ODA.

This is an example of an excluded response:

Nothing at all, this is a political joke. Putting a women in a unit that requires toughness not only physically but mentally. A women would weaken the integrity of that unit. I look to the guy to my left and right to watch out for me. I don’t need to be babysitting a women on the battle field as a leader. If I get shot what 120 pound women just trying to prove a point that women can do what men can, is going to pick up my almost 300 pound body in gear up and carry me if it comes down to it. The answer is none! It would put way too many people in danger and compromise any mission that needs to be done.

**Explanation:** While it is clear that the respondent probably opposes the accession of women in SOF specialties, and into the unit, it is never said explicitly. This would have been coded under “none/no benefits.”

**Coding of Question 2: What is your greatest concern about opening SOF specialties to women?**

**Categories**

**None/No Concerns**

Responses included in this category describe no concerns with regards to opening up SOF specialties to women.

**Physical Abilities**

Responses included in this category relayed concerns with regards to the abilities of women to perform certain tasks, whether it be in training or on a mission, because of physical limitations. Respondents whose answers were coded here expressed concerns regarding the ability of women to

- endure training because of rigorous physical demands
- carry a larger man or fallen soldier in austere or combat conditions
- operate certain equipment or weapons
- endure physically with little or no support on long deployments.

**Standards Will Be Lowered**

Responses include statements of concern that standards will be lowered, as well as statements from respondents who have no issues with incorporating women as long as standards remain the same. This includes statements pertaining to Army Physical Fitness Test (APFT) standards not being segregated by gender. Responses also include the following: current standards are
kept and remain gender-neutral, political pressure to increase the number of women in SOF
could cause standards to be lowered for either both genders (leading to the accession of additional
persons who would have been unqualified before) or just women, which returns to the
concern of the double standard for women. This category was coded if any of the following
three subcategories were coded:

- “Standards will be lowered”: Responses included in this category stated explicit concerns
  that standards will be lowered.
- “Double/different standards for men and women”: Responses included in this category
  expressed concerns that men and women will have different standards (e.g., “different
  standards,” “women will have lower standards”), regardless of how standards are initially
  set to allow for the accession of women into SOF specialties (e.g., “even if standards are
  set at first to be nongendered, the standards will have to be lowered”).
- “Okay if standards are not lowered”: Responses coded here included those that contained
  statements qualitatively similar to “as long as standards are kept the same, I have no issues
  with allowing women into SOF.”

Team Cohesion/Morale
Any responses that mentioned “team-building,” “hindering the brotherhood,” “hurting how
effectively we work as a team,” and so on were included in this category. Examples of state-
ments include

- allowing women to enter SOF—no matter the standards—would disrupt chemistry
  because of differences in how men and women work and live together
- lower morale, resentment, and distrust of women who entered SOF with lower standards
  could prevail
- living in close quarters with a women is much different from living with a man (staking
  out for days at a time, changing in front of each other, using the bathroom together), and
  that these dynamics have a negative impact on team cohesion
- if women are admitted to SOF specialties, double standards and favoritism might exist
  in everyday operation, including assignment of duties, requirements in tasks (“carrying
  their load”).

Decreased Cultural Access
Responses were coded if there was any indication that the incorporation of women into SOF
could hinder operations abroad when working with foreign states, cultures, or actors, especially
given the types of locations that SOF works in and the missions associated with those loca-
tions. Examples of responses include

- concern that the adoption of women into SOF will hinder the ability of forces to work
closely with host nations or partner nations in nations where women have significantly
  lower social status
- Concern that, where SOF operates in small, guerrilla warfare-type units with locals, local
  leaders and groups would refuse to assist or work with units that have women in them.
Concerns About Order and Discipline
Responses coded included any responses that expressed concern for unit order and discipline. This category was coded if any of the following three subcategories were coded:

- "Improper relationships, sexual misconduct, and fraternization": Responses coded included those that discussed concerns regarding intraunit sexual misconduct, relationships between unit or team members, fraternization, and so on. Furthermore, a response was coded here if it included a statement of concern that, given long, isolated deployments overseas, relationships can and will develop among team members, which can cause issues with team chemistry and cohesion, especially given the close-knit nature of SOF teams (brotherhoods).
- "Drama/distraction/favoritism": Responses coded here included those that mentioned drama, distraction, or disruption, as well as concerns that favoritism would evolve in unit as a result of a female presence. This subcategory also included concerns regarding the potential for jealousy or infighting among team men over the affection or potential affection of a woman.
- Other: Responses coded here included those that had statements expressing any other concerns regarding order and discipline. These might have been concerns that discipline could be unfairly levied at women, or that general issues with order and discipline might arise.

Sexual Harassment/SHARP/Equal Opportunity
Responses that were coded in this category generally were pervasive, though varied in exact nature. There were many different concerns binned here, which included

- real sexual harassment
- perceived sexual harassment and false complaints
- SHARP, equal opportunity (EO), and programmatic and bureaucratic boundaries and requirements (some respondents noted that they chose combat to avoid these requirements).

Spousal/Family Concerns
Responses that were coded in this category included concern that extramilitary relationships (spouses, boyfriends and girlfriends, families) would suffer because of incidents of infidelity (women and men in close quarters, overseas, for long periods of time, in combat settings that can be very emotionally taxing, often in very small groups in austere conditions), perceived infidelity, and suspicions from wives and girlfriends.

Female Health and Safety
Any responses that expressed concern for the effects of physical and mental health requirements unique to women were included here. Responses binned in this category included concerns regarding

- hygiene, especially as it pertains to uniquely female issues, which could be an issue in austere environments, where one does not shower or bathe for weeks at a time
- pregnancy; time off for pregnancy; and childcare, where concern was not with a woman being pregnant but time spent away from a unit for leave including concern that unplanned
pregnancy could lead to unplanned time off for women, which would significantly hinder preparation
• menstrual cycle and associated health concerns, including effects in high-stress, austere environments.

Politicization of SOF
Responses included here included those that expressed concerns that incorporating women into SOF is simply political, with a real disconnect between policymakers' understanding of how SOF operate and real-world operations, and that policymakers will enforce quotas (quotas might be implied if the statement mentions numbers in a trade-off for quality). Inclusion criteria also included concerns that politicians are meddling with SOF to achieve political gain rather than advance the goals and capabilities of both the military in combat and national security.

Missing
Responses included in this bin did not give an answer to this question.

Explicit Support/Approval for Women in Specialist Roles
Responses coded here included explicit statements of support or approval for allowing women in specialist roles. See this category for question 1, above.

Explicit Opposition to Women in Specialist Roles
Responses coded here included explicit statements of opposition to allowing women in specialist roles. See this category for question 1, above.

Explicit Support/Approval for Women in Unit
Responses coded here included explicit statements of support or approval for allowing women in units. See this category for question 1, above.

Explicit Opposition to Women in Unit
Responses coded here included explicit statements of opposition to allowing women into parts of units. See this category for question 1, above.

Coding of Question 3: During the opening of SOF specialties to women, what action(s) should be taken to address this concern?
Categories
No Solution
Responses were included here if the respondent noted that there was no way to solve these issues, or if it was explicitly stated that incorporating women into SOF specialties should not be done (in effect, there is no solution).

No Ideas How to Address
A response was included here if the respondent did not know how to address the issues at hand or was unsure of a path of action.

Do Not Lower Standards
Responses coded here either stated explicitly, “do not lower standards,” or something very similar, or expressed concerns that lowering standards would significantly hurt units, teams, or
operations. These responses also included concerns that physical and mental standards would be lowered for women entering SOF specialties.

Non-Gendered Standards
Responses coded here included those expressing that “women should not have lower standards,” or something qualitatively similar, in addition to those that stated that “men and women should have the same standard” or “set the standard for men and women, and do not change it.” A common concern coded here was that allowing women to have different standards will breed resentment and disrespect toward these women, since they were not held to the same standards. Responses coded here also included those that discussed special treatment for women (includes total female integration—i.e., “make them do exactly what we had to go through—with no unique treatment”; this was a very rare perspective).

Attachment/Support/Other Specialized Roles for Women
Responses included in this category included those that described different deployment options to accommodate the accession of women into SOF without fully incorporating them into teams, primarily noting attachment on a mission-by-mission basis or support roles. Some examples included

- the incorporation of women into teams based on mission-specific needs, but not fully accessed into operational detachments
- changing how women are assigned to units, where women should be asked for by the unit, not assigned by higher-ranking officers
- prohibiting women from deploying to certain locations (e.g., the Middle East, South America, Southeast Asia) because of cultural restrictions
- restricting female involvement to HUMINT and clandestine intelligence collection.

Separate Men and Women
Responses coded here expressed support for separating men and women in SOF operations—i.e., giving women their own SOF teams or units—and utilizing them for other missions or as support to current teams.

Sexual and Relationship Misconduct Regulations
Responses coded here included those that described penalties, regulations, or codes pertaining to intraunit relationships and sexual conduct, in addition to taking steps to mitigate the impact on extramilitary relationships. Examples of responses included harsh punishment for individuals engaging in intraunit relationships, regulating close quarters contact between married individuals, adjusting the Uniform Code of Military Justice for infidelity (the root idea is that it is unavoidable).

Female Health and Safety Regulations
Responses coded in this category included those that mentioned birth control, pregnancy, female hygiene, sexual assault, or other female health and safety regulations. Some examples of responses included penalties for being pregnant (the prevailing concern was that pregnant women require extensive amounts of time off, which significantly hurts team or unit chemistry) or disallowing it altogether; contingency plans in place should a women become pregnant; mandating that women are on birth control; providing infrastructure for women on base; pro-
viding swift and severe punishment for sexual assault, in addition to implementing mitigating steps; and so on.

**Education**
Responses binned here mentioned that education, whether for unit or team members or leadership, should be a part of the accession of women into SOF groups. The term *education* can include training (e.g., PowerPoint presentations, classes) and counseling (where the implication is training or classes).

**Leadership**
A response was coded here if the respondent made it clear that leadership needed to be significantly involved, or if recommendations needed to be prioritized based on lower-level ranks (unit commanders, etc.) rather than higher-ranking officials (stars).

**Implementation/Timing/Phasing**
Responses included in this bin presented ideas pertinent to implementation, timing, and phasing of the accession of women into SOF specialties. Examples of responses included

- a trial period
- slowly incorporating women in steps
- integrating females immediately.

**Explicit Support/Approval for Women in Specialist Roles**
Responses coded here included explicit statements of support or approval for allowing women in specialist roles.

**Explicit Opposition to Women in Specialist Roles**
Responses coded here included explicit statements of opposition to allowing women in specialist roles.

**Explicit Support/Approval for Women in Unit**
Responses coded here included explicit statements of support or approval for allowing women in units.

**Explicit Opposition to Women in Unit**
Responses coded here included explicit statements of opposition to allowing women into parts of units.

**Miscellaneous**
Responses included in this category were only included if they could not be binned in any other category.

**Missing**
Responses included in this bin did not give an answer to this question.
Coding of Question 39: Do you have any additional thoughts or suggestions regarding the opening of SOF specialties to women?

**Categories**

Support for Operational Specialties/Units

Responses binned here expressed support for integrating women into SOF specialties or units, where determining support could range from such statements as “I fully support women in SOF” to “I think it’s a good idea.” In contrast to the “explicit support for women in specialist roles” and “explicit support for women in unit” categories that were used for questions 1–3, responses did not have to contain explicit statements of support. Instead, given the open-ended nature of question 39, any sentiments that expressed support for or belief that the accession of women into SOF specialties was a good idea; that adding women would significantly enhance force, team, or SOF capabilities; or something similar were included. In cases where respondents expressed support solely for women in attachment or support roles, but opposition otherwise, the responses were not binned here, but instead under “non-team roles for women.”

This is an example of an included response:

> There are certainly tremendous operational positives to bringing women into the SOF umbrella. The greatest concerns are political weigh-ins causing the SOF community to accommodate women rather than allow them to join the ranks, and the effects towards the home life of current SOF personnel. Both issues will take a substantial amount of analysis regarding ways to mitigate negative effects and tremendous communication across the community. Regardless, this integration will happen eventually and we might as well embrace it while we have current solid leadership and incoming solid leadership at the top to facilitate the transition.

**Explanation**: The respondent expressed concerns regarding the accession of women into SOF specialties, especially that there is the potential for political accommodation and adjustment of SOF to women, not the other way around, but the initial line is considered generally supportive of bringing women into SOF specialties: “There are certainly tremendous operational positives to bringing women into the SOF umbrella.”

This is an additional example of an included response:

> As stated earlier, we have extremely talented women already performing critical roles in NSW [Naval Surface Warfare]. If they can conquer BUD/S [Basic Underwater Demolition/SEAL] (without changing BUD/S) they deserve a Trident, but having women SEALs won’t contribute anything to the mission that isn’t already being contributed by female enablers. BUD/S should be open to women, but there shouldn’t be any requirement to get women through it or have a certain number or percentage of them in the Force.

**Explanation**: The respondent, while noting concerns and some hesitations, stated, “If they can conquer BUD/S (without changing BUD/S) they deserve a Trident.” That is taken to be a sentiment of support, given the choice of the word deserve.

Oppose for Operational Specialties/Units

Responses binned here expressed support for integrating women into SOF specialties or units, where determining opposition could include such statements as “I oppose women in SOF,” “do not do this,” and “I think it’s a terrible idea.” In contrast to the “explicit opposition to women in specialist roles” and “explicit opposition to women in unit” categories that were used for
questions 1–3, responses did not have to contain explicit statements of opposition. Instead, given the open-ended nature of question 39, any sentiments that expressed opposition or belief that the accession of women into SOF specialties was a bad idea; that adding women would significantly degrade force, team, or SOF capabilities; or something similar were included. This is an example of an included response:

In my personal opinion, this is completely ridiculous. Not that I think that women don’t have a place in the military because they do. But they do not belong on a SOF team isolated in a country where they may be the only Americans for months on end. This is nothing more than a political stunt designed to please a minority of our population who have no idea what it really takes to be an operator. If they allow women to join SOF I believe that politicians on top will add different standards for women and topple everything that has set the SOF community apart from everyone else. We are special and because not everyone can do it, and women do not belong in our ranks and allowing them to join will not only endanger the mission but destroy the spirit de corps not only of our regiment but of all SOF units. This political stunt is [a] horrible idea that will rock the very foundations of the best SOF units in the world.

**Explanation:** The respondent expressed significant negative sentiment toward the idea of allowing women into SOF, and, when taken collectively, is rationally found to be a statement made from the perspective of opposition.

This is an additional example of an included response:

Women do not have to attend BUD/S or wear a Trident to be effective in a SOF role or to work with SEALs. I think having women in a SEAL Platoon is a bad fit and will degrade the combat effectiveness of a unit, but I do not think that means women cannot work with SEALs. They do not have to have a Trident to be effective in low visibility operations and I do think that it is beneficial to use them to break up the profile of service members working abroad. I think if women go to BUD/S, it will either break the women physically, or the standards will be significantly lowered, and I do not think either of these end states help the United States.

**Explanation:** The respondent expressed support for utilizing women for certain aspects of SOF, including a specific reference to low-visibility operations, but the general language precludes women from being SEALs or obtaining a Trident to participate in SOF.

**Highly Detrimental Concerns**
Responses coded here included concerns that this idea was “crazy” or “insane,” as well as other concerns (e.g., “what is happening with the military,” “this is not a social experiment”). These were generally outside the scope of most responses that expressed concerns or opposition to opening SOF specialties to women; these responses generally used strong language or ideas to convey that allowing women into SOF is an exceptionally bad idea. If an operator threatened to leave or retire because of the opening of SOF specialties to women, the response was included here.

Example of included response:

No one wants this. DO us a favor and listen to what we are saying for a change. This will destroy SOF units. And it will most definitely create a mass exodus from the community.
Can Washington really afford to take that risk so Politicians can brag to the public that they brought [“]gender equality” to SOF? Get the f— out of here with that noise. Politicians and camera crews don’t win wars in the shadows, highly trained, motivated men who are willing to do bad things to bad people get the job done. Gender equality is not an option when the bullets are flying. Most males in the area of the world I work in would rather backhand a female than listen to her speak. There is a reason we send men to do these jobs.

**Explanation:** The respondent uses strong, blunt language while simultaneously explaining, “This will destroy SOF units. And it will most definitely create a mass exodus from the community.” The statement is highly charged.

This is an additional example of an included response:

This endeavor is a complete waste of time. Filling out this survey is yet another example of how administrative issues, such as sensitivity or gender training or other surveys, will take away from my training time. I could list hundreds of reasons why women cannot do the job that a Green Beret is required to do, but as I only have 1000 characters, I will choose the one that I think is the most important. A woman cannot physically do what I can do! I weigh 225 pounds, and 280 pounds in full kit, as did most of the members of my ODA. I expect every person on my team to be able to drag any member of my team out of a firefight. A 130 pound female could not do it, I don’t care how much time she spends in the gym. Do we expect wounded men to bleed out because a female soldier could not drag him to cover? I understand that this issue is [“]political,” but my time is being wasted to appease some bureaucrat [sic]. If women are given a tab and Green Beret, I will turn mine in!

**Explanation:** The respondent noted that this “is a complete waste of time” and questions whether “we expect wounded men to bleed out because a female soldier could not drag him to cover.” Furthermore, concerns regarding politicization and the inclusion of the statement “[i]f women are given a tab and Green Beret, I will turn mine in!” indicated that this response was highly charged, and that the accession of women into SOF specialties would be perceived as highly detrimental to SOF.

**General Standards Concerns**

Responses coded here expressed concerns that were emphasized previously (for example, “do not lower standards,” “standards will drop, hurting SOF”) and concerns that the country would be unable to handle women coming back in body bags, that implementation benefits are outweighed by cost, that physiological differences will hinder team-building and chemistry, and so on and so forth.

**Team Cohesion, Morale, Effectiveness, and Performance Concerns**

Responses coded here expressed concerns that introducing women to SOF specialties or units, or expanding the roles of women in SOF, would lead to team chemistry or morale issues. Any responses included here mentioned explicitly *team chemistry, unit cohesion, morale, team cohesion,* and so on as suffering or being harmed because of the expansion of roles of women in SOF or the accession of women into SOF specialties or units.
Concern Regarding the Treatment of Women
Responses coded here included those that expressed concerns that the country would be unable to handle women coming back in body bags, that women might be punished for entering the unit (whether officially or unofficially), sexual harassment, hazing, and so on.

Do Not Lower Standards
Responses coded here explicitly mentioned “do not lower standards” or “do not change standards.” This was mentioned heavily, reinforcing themes from other responses.

Non-Gendered Standards
Responses coded here mentioned that men and women should have uniform standards, or that women should not have a different standard. This was common, continuing overarching survey themes.

Non-Team Roles for Women
Responses coded here included those that stated that women should be in SOF, but not on operational detachments or in other tight-knit units. Responses primarily included those that noted, again, that women should be attached on a mission-by-mission basis when called for; women should continue to provide support roles for operational detachments through cultural support teams, medical support, and so on; and that women should be utilized in HUMINT and clandestine intelligence collection roles.

Implementation, Timing, and Phasing
Responses coded here included any that discussed additional implementation suggestions that did not fit into any previous categories; for example, some might have mentioned something similar to “do not implement quotas” or “make sure that you have regulations in place to deal with sexual misconduct.”

Survey Concerns/Predetermined Outcome
Respondents coded here expressed concerns that either (1) the survey was biased in favor of allowing women to join SOF specialties through leading questions or general tone or (2) the results of the survey do not matter, and it is inevitable that women will be incorporated into SOF. Mentions of political correctness leading to inevitability were also included here.

None/No Additional Comments
Responses coded here included “no,” “none,” “no further/additional comments,” and so on.

Missing
Responses included in this bin did not give an answer to this question or responded “no” or “none” (where the respondent did not have any additional thoughts).

Random Sampling of Survey Responses for Coding
Survey responses were randomly selected according to a uniform distribution across stratified classes of ranks. For each SOF unit surveyed, let
• $i \in U$, where $U = \{1, \ldots, 6\}$, is the set of unit indices\(^2\)
• each rank group $j \in R$, where $R = \{1, 2, 3, 4\}$, is the set of rank group indexes\(^3\)
• the total number of surveys collected for unit $i$, rank group $j$, be denoted as $t_{ij}$
• the number of surveys flagged for unit $i$, rank group $j$, be denoted as $n_{ij}$.

For each survey administered, respondents were administered a unique case identification number (CID) $k$, $k \in K$, where $K$ is the set of all assigned CIDs. Then let $K^* \subseteq K$ be the set of all surveys returned, and let $K^*_{ij}$ be the ordered set of all CIDs of respondents in unit $i$, rank group $j$, who returned surveys; note that $|K^*_{ij}| = t_{ij}$. To generate random flags, $n_{ij}$ samples (without replacement) were taken from the set $K^*_{ij}$. Consider the ordered power set $P(n_{ij})$ of all unique subsets of $K^*_{ij}$ of length $n_{ij}$; then random flags for each unit $i$ and rank group $j$ were generated by randomly selecting $p_{ij} \in P(n_{ij})$, where each element $p_{ij}$ has probability $n_{ij}!(t_{ij} - n_{ij})!t_{ij}!$, or $\text{bin}(t_{ij}, n_{ij})^{-1}$, where $\text{bin}(t, n) = t!/n!(t-n)!$ is the binomial coefficient $t$ choose $n$, of being selected.

After stratifying CIDs by unit and by rank group, CIDs were sampled randomly using Wolfram Mathematica 8.0 and the RandomSample[] function. An algorithm demonstrating an equivalent sampling routine is shown below. Recall that $K^*_{ij}$ is the ordered set of all CIDs of respondents in unit $i$, rank group $j$, who returned surveys. For the purposes of demonstrating the algorithm below, let $K^*_{ij} = \{k_1, k_2, \ldots, k_{n_{ij}}\}$, where the elements $k$ are assumed to be dependent on $i$ and $j$. See Figure M.2.

---

\(2\) Each $i$ corresponds to one of the units; i.e., $i = 1$ corresponds to Air Force Special tactics team or detachment, $i = 2$ to Army Ranger element, etc.

\(3\) Similarly, each $j$ corresponds to a rank group; $j = 1$ corresponds to officers (W-1 to W-5; O-1 to O1-0), $j = 2$ to enlisted personnel (E-1 to E-4), etc.
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

Where:

- $m = \lceil (t_{ij} - s + 1) \cdot \text{rand}() \rceil$ is a randomly generated integer, $1 \leq m \leq t_{ij} - s + 1$, which is used to select a random flag $k \in K^*_{ij}$ and $\text{rand}() \in [0,1]$ is assumed to be a pseudo-random real number
- $C_s = k_m$ is the $s$th randomly selected CID, $1 \leq s \leq n_{ij}$
- $K^*_{ij} = K^*_{ij} \backslash \{k_m\}$ resets the value of $K^*_{ij}$ at each iteration $s$ by eliminating the previously assigned CID $k_m$ from the set—i.e., sampling without replacement
- $C_{ij} = \{C_i; 1 \leq s \leq n_{ij}\}$ is the nonordered set of $n_{ij}$ randomly sampled CIDs for unit $i$, rank group $j$.

The algorithm randomly samples CIDs uniformly. To verify that this algorithm randomly samples without replacement in accordance with the probabilities described in Figure M.1, note that at each iteration $s$, and for each unit $i$ and rank group $j$, the probability $P(C_s = k_m) = P(m) = (t_{ij} - s + 1)^{-1}$, and thus $P(C_s = k_m = p_{ij}(s) = (t_{ij} - s + 1)^{-1}$ depends only on $s$. Then the probability of obtaining the nonordered set $C_{ij}$ is equivalent to $P(C_s = k_m) = p_{ij}(1)p_{ij}(2) \ldots p_{ij}(n_{ij}) (t_{ij} - n_{ij})!$, where $(t_{ij} - n_{ij})!$ is the number of possible permutations of the multiplicative components—i.e., the number of ways to generate ordered sets whose elements are all equivalent to the nonordered set $C_{ij}$. Notice that this then implies $P(C_s = k_m) = (t_{ij})^{-1} \ldots (t_{ij} - n_{ij} + 1)^{-1}(t_{ij} - n_{ij})! = \binom{t_{ij}}{n_{ij}}^{-1}$. Shown in Table M.1 are the total number of surveys received, each having a unique CID, and the number of survey respondent CIDs that were randomly sampled.

Methodology

All responses were brought into and parsed in Microsoft Excel, which was used to bin specific responses to each question into major categories. Randomly sampled CIDs were flagged externally and then imported into Microsoft Excel. The identification and selection of survey response categories were made based on a combination of input from the research team and inductive reasoning. Initial coding, performed to measure interrater reliability (IRR), was performed on 160 responses selected randomly from U.S. Army Special Forces responses (in accordance with stratification of classes described above). The 160 responses included amounted to 20.43 percent of the total sample of the population, where the total sample was composed of 783 responses, or approximately 10.31 percent of the 7,591 responses received.

The research team met three times to discuss and reach consensus on major themes and subsequent categories, to identify and modify applicable exclusion and inclusion criteria for categories, and to discuss IRR measurements. The simple kappa coefficient was used to measure IRR for each category, and all kappa scores were calculated in SAS (Statistical Analysis System). A research assistant and Ph.D. fellow trained in qualitative methods subsequently coded each randomly selected response with a specific theme or code and developed a codebook that summarized thematic categories, exclusion and inclusion criteria, and key exemplars. Once a consensus was reached and the kappa scores hit the minimum benchmark of 40 percent on 20 percent of the sample, each coder independently coded their respective share of remaining responses from the total sample.
Table M.1
Number of Surveys Received of Surveys Randomly Sampled from Those Received, by Unit and Rank Group

<table>
<thead>
<tr>
<th>Service</th>
<th>Unit (i)</th>
<th>Rank Group (j)</th>
<th>Total Responses Received (t_{ij})</th>
<th>Surveys Used for 10% Sample (n_{ij})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force</td>
<td>Special tactics team or detachment</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>22</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>19</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NCO (E-5 to E-6)</td>
<td>47</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Senior NCO (E-7 to E-9)</td>
<td>33</td>
<td>14</td>
</tr>
<tr>
<td>Army</td>
<td>Ranger element</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>185</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>916</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Special Forces</td>
<td>NCO (E-5 to E-6)</td>
<td>553</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>operational</td>
<td>Senior NCO (E-7 to E-9)</td>
<td>168</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>detachment</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>691</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NCO (E-5 to E-6)</td>
<td>618</td>
<td>85</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Senior NCO (E-7 to E-9)</td>
<td>1,554</td>
<td>181</td>
</tr>
<tr>
<td>Marines</td>
<td>MARSOC platoon</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>59</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NCO (E-5 to E-6)</td>
<td>228</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Senior NCO (E-7 to E-9)</td>
<td>111</td>
<td>11</td>
</tr>
<tr>
<td>Navy</td>
<td>SEAL platoon</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>537</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>42</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NCO (E-5 to E-6)</td>
<td>818</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Senior NCO (E-7 to E-9)</td>
<td>446</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>SWCC detachment</td>
<td>Officers (W-1 to W-5; O-1 to O-10)</td>
<td>19</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enlisted (E-1 to E-4)</td>
<td>46</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NCO (E-5 to E-6)</td>
<td>315</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Senior NCO (E-7 to E-9)</td>
<td>150</td>
<td>9</td>
</tr>
<tr>
<td>Grand total</td>
<td></td>
<td></td>
<td>7,591</td>
<td>783</td>
</tr>
</tbody>
</table>
Overview of Method

This appendix reports the results of a software analysis of answers to the open-ended questions in the survey, using the DocuScope corpus analysis tool suite. Corpus analysis is an empirical approach to language analysis, using software to investigate and describe large collections of real-world language use, which have been collected according to specific criteria (Bowker and Pearson, 2002). For this study, the corpora were SOF element responses to all questions, allowing us to analyze the responses of Rangers as a whole, MARSOC as a whole, and so on.

Summary of Findings

We found the following for all of the SOF elements:

- Social connectedness language was the highest-loading language feature, followed by insistence language; this points to a strong cultural emphasis on cohesion among SOF members, and a strong commitment to their recommendations and responses in the survey.
- SOF members expressed a negative stance, both through the use of negative emotional language and also particularly through the absence of positive emotional language.
- SOF members objected strongly, using oppositional argument language and if, then reasoning to talk about the outcome of adding women to SOF, and used intensifier words to strengthen their arguments.
- SOF members stressed social goods and values, both for how those values and goods are at risk and for potential benefits, from having women in SOF.
- SOF members dramatically stressed social connectedness, likely reflecting a strong identification with their cultural in-groups.
- There were correlations between elements that were more striking than differences, with correlations around 0.96.

The following sections show these findings in more detail. To make these sections more useful to readers, we will first give a brief overview of the software used in the analysis.
Findings

Software: DocuScope

DocuScope is a corpus analysis software suite that can identify sociocultural dimensions of language—e.g., attitudes, values, relationships, emotions, and argument styles. This allowed us to capture what we might call the *stance* that SOF members expressed in their responses. The software has been found valid and accurate across a wide range of text analytic tasks and problems. In linguistic forensics, semantic features from DocuScope were combined with most-frequent-word counts for valid and highly accurate (between 70 and 90 percent) authorship identification of unattributed Ronald Reagan speeches (Airoldi et al., 2006; Airoldi, Fienberg, and Skinner, 2007). DocuScope has also demonstrated validity in automatic text classification tasks, including English of different eras, as far back as Elizabethan texts (Collins, 2003; Hope and Witmore, 2010). DocuScope’s underlying linguistic taxonomy has been validated in cross-cultural English as a second language (ESL) instruction, allowing rural Chinese students to perform U.S. English genres without U.S. cultural experience or prior English-genre instruction (Hu, Kaufer, and Ishizaki, 2011). In sentiment analysis, the semantic features from DocuScope were combined with n-grams to produce valid and highly accurate predictions of consumer sentiment in online unstructured texts, with a 92-percent accuracy rate while increasing parsimony in the number of features needed for analysis by an order of magnitude (Bai, 2011).

Of the language features DocuScope measures, we found 12 features from five language categories that were relevant to the study. They are detailed in Table N.1, ranked from highest to lowest mean frequency. The subsections that follow describe the frequency of each of these features.

<table>
<thead>
<tr>
<th>Category</th>
<th>Language Features</th>
<th>Sample Strings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationships</td>
<td>Building relationships</td>
<td>“Thank you,” “promise to,”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“appreciate”</td>
</tr>
<tr>
<td></td>
<td>Social connectedness</td>
<td>“We have,” “our,” “work with”</td>
</tr>
<tr>
<td></td>
<td>Weakening relationships</td>
<td>“Rape,” “complaints,” “discredit”</td>
</tr>
<tr>
<td>Personal perspectives</td>
<td>Intensity</td>
<td>“Very,” “strongly,” “flat out”</td>
</tr>
<tr>
<td></td>
<td>Insistence</td>
<td>“We should,” “we must,” “I recommend”</td>
</tr>
<tr>
<td>Reasoning</td>
<td>Cause/effect</td>
<td>“Due to,” “because,” “so that”</td>
</tr>
<tr>
<td></td>
<td>If, then</td>
<td>“If,” “can be,” “would be”</td>
</tr>
<tr>
<td></td>
<td>Objections</td>
<td>“No,” “none,” “but”</td>
</tr>
<tr>
<td>Values</td>
<td>Social values and goods</td>
<td>“High standards,” “standards,”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“cohesiveness”</td>
</tr>
<tr>
<td></td>
<td>Social vice and ills</td>
<td>“Degradating,” “sexual assault,”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“incompetence”</td>
</tr>
<tr>
<td>Emotion</td>
<td>Negative emotion</td>
<td>“Hate to,” “endanger,” “will suffer”</td>
</tr>
<tr>
<td></td>
<td>Positive emotion</td>
<td>“Easier,” “would prefer to,”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“rapport”</td>
</tr>
</tbody>
</table>
features in the language of respondents, by SOF element. All figures show the mean frequency of each language features, relative to a baseline corpus of general English.¹

**Relationships**

The relationship category covered social dimensions of relationship talk and was spread across three types of features: building-relationships language (e.g., thank you, appreciate, promise to), social-connectedness language (e.g., we have, our, work with), and weakening-relationships language (e.g., rape, complaints, discredit). See Figure N.1.

Figure N.1 shows that, by far, the strongest defining linguistic feature of SOF members is their use of social-connectedness language: This was the highest-scoring language feature. SOF members used relatively little language indexing that built up or weakened relationships. Rather, language indexing the current membership, and a status of being connected with those in their in-groups, was pervasive. This likely reflects a strong cultural emphasis on cohesion across all SOF elements. For building relationships, SWCCs had the highest mean difference from the baseline corpus, and special tactics the lowest. For social connectedness, special tactics had the highest, and Rangers the least. For weakening relationships language, special tactics had the strongest negative, while Rangers had a small positive mean difference.

**Figure N.1**

Building and Maintaining Relationships Language

![Graph showing normalized frequency of building relationships, social connectedness, and weakening relationships for different SOF elements.](RAND RR10581-N.1)

**NOTE:** The zero line is the normalized frequency of the feature within the FROWN.

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¹ The zero line on each chart is the normalized frequency of the feature within the Freiburg-Brown corpus of American English (FROWN), a commonly used general-use corpus of 1990s U.S. English. The calculation used was the word frequency of the feature in the baseline corpus subtracted from the frequency of the feature in the SOF element’s response, then divided by the frequency in the baseline corpus. For example: (Social Connectedness Language FROWN – Social Connectedness Language MARSOC)/ Social Connectedness Language FROWN.
Personal Perspective
The personal-perspective category included language that reflected a commitment to ideas and courses of action. From this category we included the insistence feature (often such modals as must and should) and intensity language (e.g., very, strongly, flat out). See Figure N.2.

SOF members used high levels of insistence language (the second highest-scoring feature) and intensifiers to strengthen their claims and add urgency. High levels of insistence and intensity indicated an epistemic stance of certainty in their position. For insistence, Rangers had the highest mean difference from the corpus, SEALs the lowest; for intensity, Rangers and SEALs had the highest, and MARSOC the lowest.

Reasoning
The reasoning category included reasoning strategies: language that linked cause to effect (e.g., due to, because, so that), if, then language (if, can be, would be), and objections that indexed opposition (no, none, but). See Figure N.3.

As shown in Figure N.3, SOF element members used very little language demonstrating causality. Instead, they strongly emphasized contingent if, then reasoning to project the outcomes of putting women in SOF. This if, then reasoning was combined with objections. The relatively high rate of these kinds of reasoning tactics constituted an argument strategy: a way to oppose a potential course of action. For cause-and-effect reasoning, special tactics had the highest mean difference from the baseline corpus, and MARSOC the lowest. For if, then reasoning, Rangers had the highest mean difference, and special tactics the lowest. For objections, Rangers had the highest levels, and SWCCs the lowest.

Figure N.2
Insistence and Intensity Language

![Graph showing the normalized frequency of insistence and intensity language for different SOF elements.]

NOTE: The zero line is the normalized frequency of the feature within the FROWN.
Values

The values category covered values and moral standards, including public goods and ills. In general English-language use, goods include such words and phrases as education and equal treatment under the law, while ills are such words as injustice and corruption.

Figure N.4 shows how SOF members used values language to highlight both good and bad potential outcomes from women in SOF. Members used high levels of social-goods language in two distinct ways: to highlight existing positive values they expressed as being at risk (e.g., high standards, standards, cohesiveness), and also to discuss possible benefits (e.g., access, insight). On the other hand, members used language that indexed social vice and ills (e.g., degrading, sexual assault, incompetence) to articulate potential negative outcomes that might happen if women are added to SOF.

We note here the centrality of standards in the responses on both goods and ills. Examples of social goods include such words and strings as standards, meet the standards, uphold the same standards, highest standards, up to standard, and standards for. Examples of social ills language include lower standards, and degraded standards. For social values and goods, Rangers had the highest mean when compared with the baseline corpus, and SWCCs the lowest; for social vice and ills, special tactics had the highest, and Special Forces the lowest.

Emotion

The emotion-language category included positive (e.g., easier, would prefer to, rapport) and negative (e.g., hate to, endanger, will suffer) affect words and phrases. See Figure N.5.

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2 While not coded by the software, we note that Army [or Navy, SEAL, Ranger] standards was used in the same sense of a social good.
As shown in the figure, SOF members across elements expressed an overall negative affect in their responses. This is not so much visible in their direct use of negative emotion language as it is through the conspicuous absence of positive emotion language. When read in context, feature-rich examples of SOF responses show a stance of displeasure and unhappiness. For
positive emotion, Rangers had the strongest negative mean difference, as compared with the baseline corpus, and SEALs the smallest negative mean difference; for negative emotion, special tactics had the highest mean difference, and Special Forces the lowest.

Conclusion

Our analysis shows that SOF members, regardless of element, were remarkably similar in their responses to the open-ended questions in the survey. They are more alike than unlike when analyzed by SOF element, with very high correlations in the language they used (approximately 0.96). Within that similarity, two language features stand out as the highest in mean frequency when compared with a baseline corpus of general English: social connectedness and insistence. Social-connectedness language reflects and helps create a culture of military cohesion, and the abundance of this language in the survey responses likely points to a strong cultural emphasis on cohesion among SOF members. Insistence language points to a strong commitment to members’ recommendations and responses in the survey. Our analysis also points to members’ greatest concerns: a loss or degradation of standards, and their objection to this as a possible outcome of a proposed policy change. However, alongside this concern over losing a public good is the acknowledgement of a potential gain in social goods: access and insight from having women in SOF.

3 See, for example, Marcellino, 2014, for a discussion of the role of social-connectedness language norms in building a culture of cohesion among novice U.S. Marine officers.
Overview of Method

This appendix reports the results of applying the Linguistic Inquiry and Word Count (LIWC) software to four survey questions that allowed for open-ended text responses. The LIWC dictionary contains a large number of categories of words, and it is used to produce measurements of the proportion of words in a given text corpus that are found from each category. For this study, the corpora were SOF element responses to all questions, allowing us to analyze the responses of Rangers as a whole, MARSOC as a whole, and so on.

Summary of Findings

We found that all of the SOF elements

- emphasized achievement and professionalism in their responses
- expressed high levels of negations and low levels of agreement words
- raised challenges to actions under consideration and projected future outcomes as the result
- used language suggesting anger, negative emotions, anxiety, and sadness
- shared similarities that were more notable than differences; median correlation between elements was 0.96.

The following sections explain these findings in more detail. To make those detailed sections more useful to readers, we first give a brief overview of the software used in the analysis.

Findings

Software: LIWC

LIWC is a program that can count words in a corpus, corresponding to a taxonomy of categories—e.g., positive and negative emotion, discrepancy, anger, sadness, and anxiety. These counts give us a way to quickly scan text for the presence or absence of certain categories of language use. Differences in frequency of category word use from baseline usage in a general corpus can highlight important features of the corpus being analyzed. Previous RAND research (Yeung et al., 2012) reviewed scholarly applications of LIWC to studies of language
patterns after traumatic events (Gortner and Pennebaker, 2003; Stone and Pennebaker, 2002), an investigation of how men and women communicate differently (Newman, Groom, et al., 2008), and LIWC’s application to the detection of deception (Newman, Pennebaker, et al., 2003; Hancock et al., 2008).

Of the categories of words that LIWC counts, we identified 15 that were most relevant to the study. They are detailed below in Table O.1:

Table O.2 shows the category-to-finding grouping.

The following figures show the frequency of different LIWC word categories relative to the baseline corpus for all of the categories presented in Figures O.1 and O.2. Each set of figures is followed by a description that gives greater context to the measured word frequencies, based on a limited sampling of responses to the four open-ended questions. The first figure

<table>
<thead>
<tr>
<th>Table O.1 Relevant Word Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
</tr>
<tr>
<td>Occupation</td>
</tr>
<tr>
<td>Achievement</td>
</tr>
<tr>
<td>Assent</td>
</tr>
<tr>
<td>Negations</td>
</tr>
<tr>
<td>Positive emotions</td>
</tr>
<tr>
<td>Discrepancy</td>
</tr>
<tr>
<td>Future tense</td>
</tr>
<tr>
<td>Causal</td>
</tr>
<tr>
<td>Certainty</td>
</tr>
<tr>
<td>Anger</td>
</tr>
<tr>
<td>Negative emotions</td>
</tr>
<tr>
<td>Anxiety</td>
</tr>
<tr>
<td>Sexual</td>
</tr>
<tr>
<td>Sadness</td>
</tr>
<tr>
<td>Social</td>
</tr>
</tbody>
</table>

*Example words are from the LIWC website, http://www.liwc.net.
shows the frequency of all 15 categories of words across all questions and SOF elements. In other words, a single corpus was made of text responses to all four questions from all six elements. The subsequent figures show values for categories grouped together by relevance to a particular finding. All charts show the frequency of each language feature as a delta from a baseline mean of general English.1

### Table O.2

<table>
<thead>
<tr>
<th>Finding</th>
<th>LIWC Category</th>
<th>Presence(+) or Absence (-)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasize achievement and professionalism in their responses</td>
<td>Occupation</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Achievement</td>
<td>+</td>
</tr>
<tr>
<td>Express high levels of negations, low levels of agreement words</td>
<td>Assent</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Negations</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Positive emotions</td>
<td>+</td>
</tr>
<tr>
<td>Use language suggesting anger, negative emotions, anxiety, and sadness</td>
<td>Anger</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Negative emotions</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Sadness</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Social</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Sexual</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Anxiety</td>
<td>+</td>
</tr>
<tr>
<td>Raise challenges to actions under consideration and project future outcomes as the result</td>
<td>Discrepancy</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Future tense verbs</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Causal</td>
<td>+</td>
</tr>
<tr>
<td></td>
<td>Certainty</td>
<td>+</td>
</tr>
</tbody>
</table>

1 Negations occurred frequently with positive emotions (e.g., the phrase no benefit).

### Overview: All Questions and All Elements

Figure O.1 provides an overview of the prevalence of the LIWC categories of greatest relevance. The overview measurements reflect the frequency of different LIWC word categories found in a corpus that includes all elements and all questions. Given the high correlations across elements, the measurements from the combined corpus provide a good overview and a point of departure for further exploration.

As shown, each bar represents the difference between the measurement of the word category in the SOF corpus and the measurement of the category in the LIWC baseline corpus, normalized by the value of the baseline. For example: the use of “achievement” words is nearly twice as high in the SOF corpus as it is in the baseline. Similarly, “assent” words are almost

1 The zero line on each chart is the frequency of the category within the corpus of text that LIWC publishes as a baseline of comparison for its dictionaries (see http://www.liwc.net/)
entirely absent from the SOF corpus. There was little variation across elements or questions for these measurements. A few notable exceptions discussed in further detail below include:

- Higher “negations” and “positive emotions” in question 1 (potential benefits). This corresponds to such phrases as no benefit.
- Higher “anxiety,” “anger,” “sadness,” “negative emotion,” “social” and “sexual” words in question 2 (concerns).
- Higher “certainty” words in question 3 (implementation actions).
- Higher “sexual” words from special tactics, Rangers, and SWCCs.

Finding: Emphasizing Achievement and Professionalism in Their Responses (Achievement and Occupation Words)

Figure O.2 shows the use of “achievement” and “occupation” words across different SOF elements. Example “achievement” words include *earn*, *hero*, *win*, *team*, *work*, *ability*, *performance*, *capability*, *effectiveness*, *leadership*, and *failure*. “Occupation” words, referring to work-related concepts, include *team*, *work*, *job*, *leadership*, *success*, *qualified*, and *professional*. LIWC allows for individual words to be assigned to multiple categories, hence the overlap in several of the terms in these two related categories.

All SOF members used “achievement” and “occupation” words at a frequency that exceeded that found in the LIWC baseline corpus. For example: *best* and elite were used in reference to how SOF members view their community (e.g., *best of the best, most elite units, warriors, fighting force*). Observed phrase prefixes to these words reflected concerns that policy changes could *ruin*, *neuter*, *diminish*, *compromise*, or *weaken* this standard. *Team*, a word that belongs to both categories, had many uses, including the expression of concern over dynamics and cohesion. Heavy use of *political*, an “occupation” word, reflected concerns over political
correctness, pressures, and agendas. *Requirements*, another “occupation” word, was commonly used to express concerns regarding physical, mental, mission, and operational standards that might be compromised. *Ability*, an “achievement” word, was simultaneously used to question the ability of women to perform, meet standards, or physically contribute, as well as to highlight the ability of women to interact with other women, gain access, and build rapport in certain environments.

Finding: Express High Levels of Negations, Low levels of Agreement words. (Assent, Negations, and Positive Emotions Words)

Figure O.3 shows the use of “assent,” “negations,” and “positive emotion” words across different SOF elements.

Example “assent” words include *absolutely, yes, agree, and OK*. “Negation” words include *no, don’t, not, cannot, none, without, never, negative, shouldn’t, aren’t, wouldn’t, and couldn’t*. “Positive emotion” words include *benefit, support, good, trust, respect, strength, value, advantage, and opportunities*.

These three categories all contribute to a perception of negative sentiment in different ways. For “assent,” it is the absence of words that indicates lack of support. “Positive emotion” is also generally less prevalent in the survey responses than in the baseline corpus, but when it is present in greater concentration, it is accompanied by “negations,” which modify the positive polarity of the emotion expressed. Figure O.4 shows the same categories across questions.

“Assent” words were markedly absent across all elements and questions. Looking across elements, high levels of “negations” are seen throughout, as is a lower-than-normal level of “positive emotion.” When viewed by question, we do see high levels of “positive emotion” found in question 1, but these words are often coupled with “negations” that change the polarity of the emotion (e.g., “no benefits to having,” “do not see any benefit”).

Figure O.2
Achievement and Occupation Words

<table>
<thead>
<tr>
<th></th>
<th>Achievement</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARSOC</td>
<td>2.01</td>
<td>0.63</td>
</tr>
<tr>
<td>Rangers</td>
<td>1.58</td>
<td>0.30</td>
</tr>
<tr>
<td>SEALs</td>
<td>1.83</td>
<td>0.47</td>
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<tr>
<td>Special Forces</td>
<td>2.05</td>
<td>0.70</td>
</tr>
<tr>
<td>Special Tactics</td>
<td>2.02</td>
<td>0.74</td>
</tr>
<tr>
<td>SWCCs</td>
<td>1.40</td>
<td>0.34</td>
</tr>
</tbody>
</table>

NOTE: The zero line is the frequency of the category within the corpus of text that LIWC publishes as a baseline of comparison for its dictionaries.
Considerations for Integrating Women into Closed Operations in U.S. Special Operations Forces

Finding: Raise Challenges to Actions Under Consideration and Project Future Outcomes as the Result (Discrepancy, Causal, Future Tense Verbs, and Certainty Words)

Figure O.5 shows the use of “discrepancy,” “causal,” “future tense verbs,” and “certainty” words across different SOF elements. Example “discrepancy” words include would, should, could, if,
need, want, must, lack, liability, mistake, and impossible. “Causal” words include make, because, change, force, allow, effect, affect, and experiment. “Future tense verbs” include should, will, may, must, would, might, won’t, shouldn’t, wouldn’t, and they’ll. “Certainty” words include all, certain, must, every, fact, never, sure, always, completely, absolutely, real, proven, necessary, truly, inevitable, and obvious.

Figure O.6 shows the same categories across questions. A high level of “future tense verbs,” “discrepancy,” and “causal” language was also found across all elements and across all questions. “Certainty” language was most present in responses to question 3.

The words should and would belong both to the “discrepancy” and “future tense verbs” categories. Would and should were commonly used to project future outcomes (e.g., “this would,” “it would”), suggest possible courses of action (e.g., “they should,” “we should,” “I would recommend,” “I would suggest,” “I would rather”), and draw redlines around particular areas of concerns (e.g., “standards should not be lowered,” “women should not be allowed,” “should be able to meet the same”).

Will, a “future tense verb,” was used to express particular concerns about responses affecting both men and women (e.g., “men will be men,” “men will instinctively compromise themselves,” “men will act differently,” “women will not be able to,” “women will never be accepted”), as well as the concern that “standards will be lowered.”

Change is an example of “causal” word, and its use also corresponds heavily to expression of concern regarding how the new policy will “change the” dynamics, standards, or culture currently in place.

Must is an example of a “certainty” word (which is also a “future tense verb” and a “discrepancy” word) used heavily in question 3, again to address the issue of standards (e.g., “standards must be the same for,” “must be held to the same standards”).
Figure O.7 shows the use of “anger,” “anxiety,” “negative emotion,” “sadness,” “sexual,” and “social” words across different SOF elements. Example “anger” words include harassment, fight, battle, war, destroy, assault, enemy, dangerous, dominated, jealousy, resentment, and aggression. “Anxiety” words include risk, distraction, stress, pressure, fear, emotional, doubt, tension, strain, afraid, and uncomfortable. “Negative emotion” words include lower, problems, risk, harassment, distraction, difficult, degrade, stress, pressure, fear, emotional, loss, fail, weaker, liability, killed, and jealousy. “Sadness” words include lower, lose, fail, hurt, suffer, damage, and devastating. “Sexual” words include sexual, sex, sexist, pregnancy, rape, and naked. “Social” words include they, we, men, women, female, culture, and brotherhood.

Figure O.8 shows the same categories across questions.

Several categories of words captured the main categories of complaints that SOF members expressed. Levels of “sadness,” “social words,” “negative emotions,” “anxiety,” “sexual,” and “anger” words were similar, with a few exceptions across SOF elements. However, when viewed by question, high levels of all of these words were observed in responses to question 2, which asked the respondent what his greatest concern was regarding the opening of SOF specialties. The most commonly observed “sadness” words included several variants of lowering, losing, failing, and ruining. These words commonly referred to lower standards; failure to meet or maintain standards; and ruining team dynamics, cohesion, or integrity.

“Negative emotions” words, such as problems, risk, harassment, and distraction corresponded to concerns about issues that might arise within teams, risks to the mission, sexual harassment, and distractions that the policy change might cause. Words in the “sexual” category included sex, pregnancy, and rape. Example “anxiety” words included stress, emotional, and worry. Stress commonly referred not only to stress on the unit but also to stress to marriages.
and families. “Emotional” words commonly referred to perceived differences between men and women. *Worry* applied to the full range of concerns expressed elsewhere (e.g., “I worry,” “worry that”). *Jealousy*, an example of an “anger” word, referred both to team members competing for the attention of women and to the potential jealousy of spouses. *Brotherhood* and *community*
were commonly used “social” words, often preceded by concerns about breaking, tearing, damage, or disruption.

Conclusions
Our analysis shows that SOF members, regardless of element, were remarkably similar in their responses to the open-ended questions in the survey. The respondents were more alike than unlike when analyzed by SOF element, with very high correlations in the language they used (approximately 0.96). Within that similarity, several patterns in the word frequencies of several LIWC categories stood out: concerns about professionalism, expressions of negativity and expressions of disagreement, and enumeration of several stressors and concerns. The dominant theme in these patterns is a negative stance toward the opening of SOF specialties to women, grounded in such concerns as the lowering of standards, political motivations, and stressors that are likely to emerge within units and at home. Despite this observed opposition, some potential benefits were mentioned, such as the ability of women to interact with other women, gain access, and build rapport in certain environments.
This appendix presents the consent form distributed to all participants of Women in SOF focus group sessions.
Assessing the Implications of the Opening of SOF Specialties and Units to Women

Hello, we are researchers with RAND, an independent, non-profit, federally funded policy research organization that serves the Office of the Secretary of Defense, the Joint Staff, the Combatant Commands, the Army, the Air Force, the Navy, the Marine Corps, and the defense Intelligence Community.

USSOCOM has asked RAND to conduct research examining the implications of the decision by the Secretary of Defense to open up SOF specialties and tactical-level units to women. This research aims to assess the implications of the potential integration of women into SOF on unit cohesion, readiness, and performance.

We have completed initial research on the factors that play a role in a unit’s effectiveness. At this time, we want to hear from you about your experiences and insights into issues associated with the opening up of SOF specialties and tactical-level units to women. This focus group session should last about 60 minutes.

Your participation is voluntary and you can decline to answer any of the questions. Whether you choose to participate or not in this discussion, RAND will not be reporting your participation to any military office. You may leave now if you choose not to participate in this discussion.

There are no “right” or “wrong” answers. We are strictly interested in learning about your experiences and observations. We will be taking notes today, but we will not record any names in our notes and we will not show our notes to anyone outside of RAND. Our notes will only help us to identify general patterns of comments and inform our analysis for USSOCOM leaders to develop and implement policies and programs. Any quotations or other specific focus group data used in the final report will be identified only by generic descriptors. No one will be identified by name; the only identification will be: rank and service affiliation.

Finally, we ask that each of you commit to keeping today’s discussion confidential by not revealing the names of other participants or their comments to anyone. What each of you says should remain in this room. Although we are asking everyone else in the focus group to keep your answers confidential, we cannot guarantee they will do so. Questions about personal experiences may be asked. If these are disclosed, they could cause embarrassment or distress. Therefore, please be careful not to say anything that you would not want another participant to repeat outside of this group.

Please keep this information sheet. If you have any questions or comments about this RAND research, you can contact the project leaders, Thomas Szayna at 310-393-0411 x7758, szayna@rand.org or Bill Welser at 310-393-0411 x6435, bwelser@rand.org. You may also contact the RAND Human Subjects Protection Committee at (310) 393-0411 x6939 or hspcadmin@rand.org.
This appendix presents the questions used to organize each of the Women in SOF focus group sessions.

[Instructions: Collect the following basic demographic information]:

- Component
- Occupational specialty
- Current pay grade
- How many years in service? Of these, how many in SOF?

A. Questions Regarding Expectations Regarding the Potential Impacts of Integration

[Instructions] We would like to start by asking you about your expectations regarding the potential impact of the integration of women into SOF.

1. What will be the impact of integrating women into your specialty?
   a. < Probes, if needed >:
      ◦ < What positive impacts do you think it will have? >
      ◦ < What negative impacts do you think it will have? >

2. How do you think the integration of women into your unit/team will impact:
   a. Unit cohesion or trust among unit/team members?
   b. Your individual morale and unit/team morale?
   c. Your individual ability and your unit/team’s ability to perform the mission?
   d. Your unit/team’s readiness?

3. Do you have any concerns about the impact of integrating women into your unit/team?
   a. < Probes, if needed >:
      ◦ < Interpersonal issues >
      ◦ < Ability to form a cohesive team >
      ◦ < Women’s ability to meet physical job requirements for SOF specialties >
      ◦ < Concerns about sexual harassment or sexual assault >

4. If women are allowed to serve in SOF, do you think the military will find it easier or more difficult to recruit good personnel than they do now? Why?
5. If women are allowed to serve in SOF, do you think the military will find it easier or more difficult to retain good personnel than they do now? Please explain.
   a. < Probes, if needed >:
      ◦ < Will this influence your intention to stay in the military? >

**B. Questions Regarding Implementation**

[Instructions] The next questions focus on your advice regarding the implementation of the potential integration of women into SOF.

1. During integration of women into your specialty, what action(s) should be taken to address the concerns you have?
   a. < Probes, if needed >:
      ◦ < What action(s) should be taken to address potential impacts on unit/team trust and morale? >
      ◦ < What action(s) should be taken to address potential impacts on unit/team cohesion? >
      ◦ < What action(s) should be taken to address potential impacts on unit/team performance? >
      ◦ < What action(s) should be taken to address potential impacts on unit/team readiness? >

2. What other advice would you give to leaders if the decision is made to integrate women into SOF units/teams?

3. Are there specific actions that commanders can take to minimize any potential adverse impacts that integration might have on their units/teams?
# Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFSC</td>
<td>Air Force Specialty Code</td>
</tr>
<tr>
<td>AFSOC</td>
<td>Air Force Special Operations Command</td>
</tr>
<tr>
<td>APFT</td>
<td>Army Physical Fitness Test</td>
</tr>
<tr>
<td>BUD/S</td>
<td>Basic Underwater Demolition/SEAL</td>
</tr>
<tr>
<td>CA</td>
<td>civil affairs</td>
</tr>
<tr>
<td>CID</td>
<td>case identification number</td>
</tr>
<tr>
<td>CST</td>
<td>cultural support team</td>
</tr>
<tr>
<td>DADT</td>
<td>“Don’t Ask, Don’t Tell”</td>
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<td>DMDC</td>
<td>Defense Manpower Data Center</td>
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<tr>
<td>EO</td>
<td>equal opportunity</td>
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<tr>
<td>FROWN</td>
<td>Freiburg-Brown corpus of American English</td>
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<td>human intelligence</td>
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<td>IO</td>
<td>industrial-organizational</td>
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<td>Linguistic Inquiry and Word Count</td>
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<td>Marine Special Operations Command</td>
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<td>MEDCAP</td>
<td>Medical Civil Action Program</td>
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<td>MOS</td>
<td>Military Occupational Specialty</td>
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<td>NAVSPECWARCOM</td>
<td>Navy Special Warfare Command</td>
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<td>NCO</td>
<td>noncommissioned officer</td>
</tr>
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<td>NSW</td>
<td>Naval Surface Warfare</td>
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<td>ODA</td>
<td>Operational Detachment–Alpha</td>
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<td>PSYOPS</td>
<td>psychological operations</td>
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<tr>
<td>SEAL</td>
<td>Sea, Air, Land</td>
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<td>Full Form</td>
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<td>--------------</td>
<td>-----------</td>
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<tr>
<td>SFODA</td>
<td>Special Forces Operational Detachment–Alpha</td>
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<tr>
<td>SHARP</td>
<td>Sexual Harassment/Assault Response and Prevention</td>
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<td>special operations forces</td>
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<tr>
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<td>U.S. Special Operations Command</td>
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<tr>
<td>WO</td>
<td>warrant officer</td>
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</table>


Defense Manpower Data Center, Active Duty Master File, Washington, D.C., September 2013.


DMDC—See Defense Manpower Data Center.


USSOCOM—See U.S. Special Operations Command.


