# Census 2020

### 2018 End-To-End Census Test: Group Quarters Advance Contact Operational Assessment Study Plan

**Group Quarters Integrated Product Team** 

Draft Pending Final Census Bureau Executive Review and Clearance.

### (Final Draft)



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### I. Introduction

The 2018 End-to-End Census Test is an important opportunity for the Census Bureau to ensure an accurate count of the nation's increasingly diverse and rapidly growing population. It is the first opportunity to apply much of what has been learned from census tests conducted throughout the decade in preparation for the nation's once-a-decade population census. The Address Canvassing portion of the 2018 End-to-End Census Test will be held in three locations: Providence County, Rhode Island; Pierce County, Washington; and Bluefield-Beckley-Oak Hill, West Virginia. The remaining operations 2018 End-to-End Census Test, including the selfresponse phase, will take place in Providence County, Rhode Island.

The 2018 End-to-End Census Test will test and validate the 2020 Census operations, procedures, systems, and field infrastructure to ensure proper integration and conformance with functional and non-functional requirements. The test will also produce a prototype of geographic and data products, and will validate the 2020 Census design and cost estimate. Note that the 2018 End-to-End Census Test results are based on three sites that were purposely selected and cannot be generalized to the entire United States. Additionally, because it is not conducted in a "full decennial census environment," the results may not foreshadow what will occur in the 2020 Census.

The purpose of the Group Quarters Advance Contact (GQAC) operation is to prepare Group Quarters (GQ) for the upcoming census enumerations. Before we can enumerate people in GQs, we first let the GQ administrators know that we are coming, explain the enumeration process, and collect certain information about each GQ to plan for a successful enumeration during the Service-Based Enumeration (SBE) operation and the Group Quarters Enumeration (GQE) operation. For the 2018 End-to-End Census Test, the GQAC will be conducted in Providence County, Rhode Island. The GQAC operation will occur June 18 through July 10, 2018. This study plan documents how the 2018 End-to-End Census Test GQAC will be assessed, as guided by the questions to be answered.

### II. Background

### 2010 Census Group Quarters Advance Visit

For the 2010 Census, the Group Quarters Advance Visit (GQAV) was a paper-based operation in which field staff visited each GQ to inform, explain, interview and record information on paper forms called Advance Visit Interview Records (AVIR). Information from the AVIR for each GQ was transferred to an Enumeration Record (FORM D-352.1). This form contained updated information that was collected during GQAV, such as the updated GQ name, address, contact person information, and the appointment date for enumeration. This information was necessary for staff at the Local Census Office (LCO) to prepare enumerators for the enumeration.

### **III. Methodology**

A primary objective for the 2020 Census is to lower costs compared to that of the 2010 Census while maintaining high quality and to utilize technology, as defined in the 2020 Census Business Plan. One way to accomplish this is to reduce personal visits to the field. For the 2020 Census, and the 2018 End-to-End Census Test, our plan for the GQAC operation is to conduct telephone interviews with the GQ contact person to prepare group quarters staff for the upcoming SBE and GQE operations.

The Group Quarters Advance Contact (GQAC) operation is an in-office operation in which clerks in the Area Census Offices (ACOs) will call group quarter facilities to verify the GQ name, address, and contact information. During this contact, clerks will schedule a date and time for the Census Bureau to conduct the enumeration, address any confidentiality concerns and identify any special instructions or security issues. In addition, clerks collect the approximate population of the GQ on Census Day; the preferred method of enumeration as appropriate; and whether the GQ services females only, males only, or both.

One of the main reasons a "complete" interview cannot be obtained, depends on the quality of the phone number provided on the MAF at the time of the call. If the phone number is missing, disconnected, incorrect or there is no answer after several attempts, the ACO clerks will attempt to find the correct phone number for the GQ by searching the internet using the GQ name, address, GQ type, and other information such as local knowledge to call the GQ to conduct the GQAC interview. If the clerks' attempt to find a phone number was unsuccessful, then these cases will be marked as not complete with a status of unresolved. All unresolved cases will be sent to the SBE or GQE operation for field enumeration.

As part of GQAC, prior to making phone calls, the Census Bureau will mail letters to all addresses in the GQAC universe. The letter will inform the GQ facility manager about the upcoming 2018 Census Test and let them know that a Census Bureau worker will contact them by telephone between June 18, 2018 and July 10, 2018 to verify and collect information about their group quarters.

### Creating the Group Quarters Advance Contact (GQAC) Universe

An important recommendation from the 2010 Census was to include GQ frame development into the reengineered Address Canvassing operation and create an In-Office GQ Review for the 2020 Census. However, Address Canvassing and the In-Office GQ Review operations will not play a part in determining the GQ universe for the 2018 End-to-End Census Test. Instead, the GQAC universe will consist of the GQs that are on the MAF as of January 2018 for Providence County, Rhode Island.

### College/University Student Housing GQ Types 501 & 502

As colleges and universities change to keep pace with students, so do the different types of living arrangements available to them. Because of this, the Census Bureau found it necessary to revisit the definition for college/university student housing. Research was conducted to assess and support the following revised definitions for college/university student housing.

- GQ type 501 -College/University Student Housing (owned/leased/managed by the college/university): Includes residence halls, and other buildings, including apartment-style student housing, designed primarily to house college and university students in a group living arrangement either on or off campus. These facilities are owned, leased, or managed by the college, university, or seminary. Fraternity and sorority housing recognized by a college or university are included as college student housing. Students attending the U.S. Naval Academy, the U.S. Military Academy (West Point), the U.S. Coast Guard Academy, and the U.S. Air Force Academy are counted in military group quarters.
- **GQ type 502 -College/University Student Housing (owned/leased/managed by a private company/agency):** Includes buildings designed primarily to house college and university students in a group living arrangement either on or off campus. These facilities are owned, leased, or managed by a private company or agency (i.e., not owned/leased/managed by a college/university). This category includes apartment-style student housing. Residents typically enter into "by the bed" leases (i.e., single-liability leases).

For GQ Type 501, clerks will ask the GQ contact person whether the GQ is owned, leased, or managed by the college or university or privately owned, leased or managed. If privately owned, leased or managed, the clerk will update the GQ Type from 501 to the new GQ Type 502.

#### The Production Control System

The set of GQ addresses and other information from the MAF will be uploaded to the Production Control System (PCS), a web-based application that was designed and developed specifically to support the GQAC operation.

Office staff in the Providence County, Rhode Island ACO will conduct telephone interviews to verify or to update the GQ information about the GQAC universe by contacting every GQ facility using the phone number on the MAF. They will enter the GQ contact person's responses directly in the PCS.

GQ address records eligible for GQAC that were verified, updated or could not be verified (i.e., after unsuccessful attempts to contact someone by telephone during GQAC) will be sent to the field during the applicable GQ enumeration operation, that is the 2018 End-to-End Census Test SBE or GQE operation.

#### **Interview Calling Scripts**

ACO clerks will use a predefined interview paper calling script specific to the GQ type being contacted to verify the GQ name, address, and the GQ person's contact information. In addition, staff will collect information to assist enumerators in conducting the upcoming enumerations. Staff will schedule a date and time for the Census Bureau to conduct the enumeration, collect the expected population at the time of enumeration for SBE GQs or the approximate population on Census Day for non-SBE GQs, the preferred enumeration method, whether the GQ serves females only, males only, or both, and address any privacy or confidentially concerns. Staff will conduct the interview and record the responses and notes directly in the PCS. The four predefined interview calling scripts are for the following types of GQs:

- 1. Emergency and Traditional Shelters (with sleeping facilities for people experiencing homelessness), which includes shelters for children who are runaways, neglected or experiencing homelessness (Shelters), **except** Domestic Violence Shelters
- 2. Soup Kitchens
- 3. Regularly Scheduled Mobile Food Vans (Mobile Food Vans)
- 4. Non-SBE GQ types except Military GQs and Merchant and Maritime Vessels

### Types of Enumeration Methods Offered

Lessons learned from the 2010 Census recommended that the Census Bureau explore offering the GQ contact person the option to select an enumeration method of their choice. For the 2018 End-to-End Census Test GQAC operation, the ACO staff will offer the GQ contact person one of the following enumeration methods eligible for the GQ type:

- Electronic Response Data Transfer (eResponse): The GQ contact person will be provided with a unique user ID and password to electronically submit response data to a secure portal for each person who was staying at this facility on Census Day. The data that will be requested for each person includes name, sex, date of birth, age on Census Day, race, ethnicity, and an alternate address where the person lives or stays when not at this facility. The requested data must be entered using the Census Bureau's format and uploaded to our website. The GQ Contact person can submit their eResponse data starting July 30, 2018 through August 24, 2018. Only non-SBE GQs can select this enumeration method.
- **In-Person Interview:** A census worker will conduct a face-to-face interview with each person who was served or was staying at this facility on enumeration day for SBE GQs or and for each person staying at this facility on Census Day, April 1, 2018 for Non-SBE GQs. Soup Kitchens and Mobile Food Vans will be enumerated by In-Person Interviews only. Shelters and non-SBE GQs will be allowed to select this method.
- **Drop Off/Pick Up of Questionnaire**: A census worker will leave census questionnaires with the GQ contact person to distribute to each person who was staying at this facility on Census Day. The contact person is instructed to ensure that each person completes and returns the questionnaires. A census worker will pick up the completed forms from the contact person at an agreed-upon time. Only Non-SBE GQs can select this enumeration method.
- **Facility Self-Enumeration**: A census worker will swear in and train the GQ contact person on how to conduct the enumeration. The census worker will also leave census enumeration materials to conduct the enumeration for each person who was staying at this facility on Census Day. A census worker will pick up the completed questionnaires at an agreed upon time. Only correctional and health care facilities can select this option.
- **Paper-Response Data Collection**: A census worker will meet with the GQ contact person of this facility to obtain a paper listing of response data for each person who was served or was staying at this facility on Census Day. The response data that will be requested for each

person includes name, sex, date of birth, age on Census Day, race, ethnicity, and an alternate address where they live or stay when not at this facility. Shelters and non-SBE GQs will be allowed to select this method.

### Internal Systems Flow

The following list describes an overview of the internal system flow from which we will obtain data to assess the GQAC operation.

- 1. The Master Address File /Topologically Integrated Geographic Encoding and Referencing Database (MAF/TIGER) system creates the GQ universe in a MAF Extract, which includes both SBE and non-SBE GQ information.
- 2. The GQ MAF Extract is delivered to the Control and Response Data System (CaRDS) to create the GQ Sample Delivery File (GQ SDF), which determines the universe for enumeration and, if applicable, mailing letters and promotional material.
- 3. The Survey Operational Control System (SOCS) receives the GQ SDF from CaRDS and runs the validation according to a set of rules from DSSD.
- 4. The SOCS creates the GQAC workload from the GQ SDF and sends the cases to the Product Control System (PCS). This is a one-time transfer.
- 5. Clerks in the ACO will access the PCS to verify, update and enter GQ information. Once the GQAC operation is finished, PCS will send a file to SOCS to update the GQ universe.
- 6. The Decennial Information Technology Division (DITD) will deliver the updated GQAC output data from the SOCS/PCS to the DSSD for analysis.

### **IV.** Assumptions

The following assumptions pertain to the 2018 End-to-End Census Test GQAC operation.

- The GQAC operation at the ACO has the benefit of local knowledge that enables an overall personal approach to obtain information.
- The GQ contact person will provide responses to the GQAC calling script.
- Census Bureau headquarters will have the capability to receive knowledge of the progress of the GQAC operation.
- Census Bureau headquarters (DSSD) will receive output data from the GQAC operation for data analysis.
- The PCS will be fully developed, tested, and available throughout the dates of the GQAC operation.

### V. Questions To Be Answered

This document outlines the study plan to assess the GQAC operation for the 2018 End-to-End Census Test. It presents details about the questions to be answered in the final operational assessment report. This study will quantify and analyze the results from the in-office interviews as well as check that the data are collected and processed as intended. The 2018 End-to-End Census Test GQAC Assessment will also include variance analysis on schedule and budget, production and training workloads, field staffing workloads, enumerator debriefings and lessons learned from the Group Quarters Operations-Integrated Project Team (GQO-IPT).

This assessment marks the first time that we will conduct and assess the results of the in-office GQ Advance Contact operation.

For all of the assessment questions presented in this section, we will provide the counts and percentages by the four GQ script types i.e., Shelters, Soup Kitchens, Mobile Food Vans and Non-SBE GQs, as appropriate. Table shells provided.

We will also break down the counts and percentages for Non-SBE GQs by GQ type for the same appropriate assessment questions that were broken down by GQ Script Type. See the table on the next page for the GQ types that are eligible for GQAC. The authors will determine how best to display the non-SBE GQ results by GQ type when preparing the assessment report.

GQ Type Code	GQ Type Description
101	Federal Detention Centers
102	Federal Prisons
103	State Prisons
104	Local Jails and Other Municipal Confinement Facilities
105	Correctional Residential Facilities
201	Group Homes for Juveniles (non-correctional)
202	Residential Treatment Centers for Juveniles (non-correctional)
203	Correctional Facilities Intended for Juveniles
301	Nursing/Skilled Nursing Facilities
401	Mental (Psychiatric) Hospitals and Psychiatric Units in Other Hospitals
402	Hospitals with Patients Who Have No Usual Home Elsewhere
403	In-Patient Hospice Facilities
405	Residential Schools for People for People with Disabilities
501	College/University Student Housing (owned/leased/managed by the college/university)
502*	College/University Student Housing (owned/leased/managed by a private company/agency)
801	Group Homes Intended
802	Residential Treatment Centers for Adults
901	Worker's Group Living Quarters
902	Religious GQs

### Non-SBE GQ Types Eligible for 2018 GQAC

\*New GQ Type approved October 2017

Note: We may need to revise, update, or remove questions or tables from the assessment report to reflect the information that is actually available from the data collected during the 2018 End-to-End Census Test GQAC operation.

### **Questions**

# **1.** How many GQAC interviews were "complete"? What were the reasons for not completing an interview? How many of these were because the GQ Contact Person refused the interview?

Table 1 will provide the number of "complete" and "not complete" interviews. We will calculate the number of "complete" interviews by type of enumeration mode selected, (i.e., eResponse or paper enumeration). Interviews that are not completed will be broken down by the reasons listed in Table 1. The PCS system will mark an interview as "complete" for paper enumerations if the case has both a scheduled visit and an enumeration method selected. For those GQ administrators that selected eResponse as their preferred enumeration method, the PCS will mark the interview as "complete".

CO Contact Derson	Т	otal	Sh	elters	Soup 1	Kitchens	Mobile I	Food Vans	Non-S	BE GQs
GQ Contact Person Interview Result	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Complete Interviews										
eResponse			NA	NA	NA	NA	NA	NA		
Paper Enumeration										
Not Complete										
Refusal by GQ Contact Person										
Language Barrier										
Hearing or Comprehension Barrier										
Not a GQ										
Housing Unit										
Transitory Location										
Nonresidential										
Phone Number Issues										
No Phone Number Available										
Wrong Phone Number										
No Answer										
GQ Moved										

#### Table 1. Reasons for Not Completing the Interview by GQ Script Type

Other					
TOTAL GQ WORKLOAD					

### 2. What were the reasons the GQ Contact person refused the interview?

One of the reasons for a non-interview is that the GQ contact person refuses the GQAC interview. Table 2 will provide the number of GQ contact persons who refused the interview and the reasons for the refusal by GQ Script Type.

#### Table 2. Reason the GQ Contact Person Refused the Interview by GQ Script Type

Refusal Reason	Т	otal	Sh	elters	Soup H	Kitchens		le Food ans	Non-SI	BE GQs
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
GQ Contact Person too busy, not interested or does not want to be bothered										
Privacy concerns or the facility cannot comply due to legal restrictions/company policy										
Survey complaints such as survey is a waste of time and money, done enough surveys, survey is voluntary (i.e., they do not have to do interview)										
Anti-government concerns or question the legitimacy of the Census										
Hostile GQ Contact person/dangerous situation/threatening language										
Claims they already completed an interview										

Reason Unknown					
TOTAL Refusals					

# 3. Of the GQs that completed the GQAC interview, how often was the GQ information updated during verification? How many GQ Type 501 (college/university owned, leased or managed) was updated to GQ Type 502 (privately owned, leased, or managed)?

Of the number of completed interviews, Table 3 will show how often the ACO clerks updated the facility name, GQ name, GQ type, GQ contact information and the address information. The PCS will allow clerks to make minor changes, such as correcting misspellings of the street name and correcting location descriptions. If during verification, the GQ contact person tells the clerk the address is incorrect or if the GQ has moved to another location, the clerk will click on the "GQ Address Update" button on the edit screen of the PCS to reveal a dropdown menu which shows "No Update", "Apt/Unit ID", "New Address", or some "Other" address update was made to the address. If "Other" is selected, a textbox will open for the user to enter the type of update made. If no update was made, then the clerk will select "No Update". Clerks will also verify or update the maximum number of people who can stay or be served by the GQ. Table 3 will show how often GQ Type 501 were updated to 502 during GQAC.

	Т	otal	She	lters	Soup K	Kitchens		ile Food ⁄ans	Non-S	BE GQs
<b>GQ</b> Information	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Completed Interviews										
Facility Name										
GQ Name										
GQ Type										
501 to 502			NA	NA	NA	NA	NA	NA		
Other GQ Type Updates										
Max Pop										
Primary Contact Person										
Name										
Phone Number										
Secondary Contact Person										
Name										
Phone Number										
Street Name										
Location Description										
GQ Address Updates										
No Update										

#### Table 3. Updates to GQ Information by GQ Script Type

Apt/Unit ID					
New Address					
Other Updates					
TOTAL GQs with one or more updates					

#### 4. What is the distribution of GQs by the type of enumeration method selected?

Table 4 will tally the number of GQs by the preferred method of enumeration eligible for the GQ type.

- SBE GQs The GQ contact person at shelters can choose one of the two methods that is In-Person Interview or Paper-Response Data Collection. Soup kitchens and mobile food vans will be enumerated by In-Person Interview only.
- Non-SBE GQs The GQ contact person at non-SBE GQs is eligible to select any of the methods offered. They can select Facility Self Enumeration for correctional and health care facilities only.

Enumeration	Total		Sh	elters	Soup I	Kitchens	Mobile Food Vans		Non-S	BE GQs
Method	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
eResponse			NA	NA	NA	NA	NA	NA		
In-Person										
Interviews										
Drop Off/Pick Up										
ICQs			NA	NA	NA	NA	NA	NA		
Facility Self- Enumeration			NA	NA	NA	NA	NA	NA	Certain GQ Types	
Paper-Response										
Data Collection					NA	NA	NA	NA		
TOTAL										

Table 4. Type of Enumeration Method Selected by GQ Script Type

### 5. How many SBE GQs scheduled their enumeration for July 25, July 26, or July 27, 2018?

The SBE will occur July 25 through July 27, 2018. ACO clerks will ask the GQ contact person if their facility will be open or operating during one or more of the three enumeration dates. Based on the answer, the clerk will schedule a date for the Census Bureau to visit the GQ to conduct the enumeration. If the facility is not open or operating during these three days or if none of these dates are acceptable to conduct the enumeration, the people at the GQ will not be enumerated in the 2018 End-to-End Census Test. The enumeration appointments cannot be scheduled outside of July 25, 26 or 27, 2018.

Scheduled Visit	То	tal	She	lters	Soup H	Kitchens	Mobile Food Vans		
Date	Count	Percent	Count	Percent	Count	Percent	Count	Percent	
July 25, 2018									
July 26, 2018									
July 27, 2018									
Not Scheduled									
TOTAL									

Table 5. SBE GQs Enumeration Date Scheduled

### 6. How many non-SBE GQs scheduled their paper enumeration for the first, second, third, or last week of GQE by type of paper enumeration methods?

The GQE will occur July 30 through August 24, 2018. ACO clerks will ask the GQ contact person if their facility will be open or operating during this period for the paper enumeration method the GQ contact person selected. Based on the answer, the clerk will schedule a date and time for the Census Bureau to visit the GQ to conduct in-person interviews, leave paper questionnaires, or pick up paper listings. If the facility is not open or operating or if none of these dates are acceptable, the people at the GQ will not be enumerated in the 2018 End-to-End Census Test. The enumeration appointments cannot be scheduled outside of July 30 through August 24, 2018.

	Total		In-Person Interview		Drop off/Pick up Questionnaires		Pick up Paper Listings		Facility Self Enumeration	
Scheduled Visit Week	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Week 1: July 30 – August 4										
Week 2: August 6 – August 11										
Week 3: August 13 – August 17										
Week 4: August 19 – August 24										
Not Scheduled										
TOTAL										

Table 6. Non-SBE GQs Enumeration Scheduled by Selected Paper Enumeration Method

### 7. How many GQs serve males only, females only, or both?

Table 7 will show the number of GQs that serve males only, females only, or both. This information is important to collect in preparation for the enumeration. For example, an ACO may opt to send only male enumerators instead of female enumerators to conduct in-person

interviews for a particular GQ based on whether the facility serves males only, the type of the GQ (such as a shelter), and local knowledge.

Sex of Population	Total		Total Shelters			Kitchens		le Food ans	Non-SBE GQs	
Served	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Males Only										
Females Only										
Both Males and Females										
Not Provided										
TOTAL										

 Table 7. GQs by Sex of Population Served by GQ Script Type

### 8. Are there any clients who do not speak or understand English? What are the languages they speak?

Table 8 will show the number of GQs that have clients that do not speak or understand English broken down by specific languages they do speak. This information will help the ACO to prepare for the enumeration. If the GQ does have clients who do not speak or understand English, the ACO may plan to hire bi-lingual enumerators who can verbally translate the ICQ in the language the respondent understands.

Any clients at GQ who do not speak or	Тс	otal	Sh	elters	Soup F	Kitchens	Mobile Food Vans		Non-SBE GQs	
understand English?	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Yes										
Spanish										
Other Non-Spanish										
No										
Don't Know										
TOTAL										

Table 8. GQs by Whether Clients Speak or Understand English

### 9. How long, on average, did it take clerks to complete the interview using the Production Control System (PCS)?

ACO clerks will call each GQ to verify and update the necessary GQ information using paper calling scripts specific to the GQ type. We will calculate the number of minutes from the time the clerk opens a case until the case ends. Table 9 will provide the average time it took for a

clerk to complete the interview in the PCS. We will also examine the average time it took to conduct an interview for different categories, such as "refusals" and cases that were "not a GQ." We will combine both the complete and incomplete interviews, for an overall estimate of the number of minutes to obtain and enter information in the PCS during GQAC.

Average Time	Total		Shelters		Soup Kitchens		Mobile Food Vans		Non-SBE GQs	
(In Minutes)	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Total Complete Interviews										
Average minutes per complete interview										
Total Incomplete Interviews										
Average minutes per incomplete interview										
Total Interviews										
Average minutes per interview										

Table 9. Average Number of Minutes to Complete an Interview using the PCS by GQ Script Type

# 10. What were the operational expenses to conduct the 2018 End-to-End Census Test GQAC operation? What was the difference between the budget and the actual costs? What was the cost by case?

Table 10. Group Quarters Advance Contact Operational Expenses

Component	Total Budget	Actual Tot Costs	tal	% Total Budget Used	Variance	% Variance
Production Total						
Cost per Case						

### **11.** What were the training costs by employee type? What was the training cost per employee type?

Employee Type	Actual Training Costs	% Training Budget Used	Variance	%Variance
Clerks				
Office Operations Supervisor (OOS)				
Census Field Manager (CFM)				
Total Field Staff				

### 12. What were the training hours by employee type? What were the training hours per employee type?

#### Table 12. Group Quarters Advance Contact Training Hours

Employee	Planned Training	Actual Training	% Training
Туре	Hours	Hours	Hours Used
Clerk			
Office Operations Supervisor (OOS)			
Census Field Manager (CFM)			
Total Field Staff			

#### **13. What was the cost for actual work?**

#### Table 13. Group Quarters Advance Contact Work Costs

Component	Planned Work Budget	Actual Work Cost	% Work Cost
Production Total			

#### **14. What were the planned work hours?**

**Table 14. Group Quarters Advance Contact Work Hours** 

	Planned	Actual Work	% Work Hours
Component	Work Hours	Hours	Used
Production			
Total			

### 15. How did actual start and completion dates compare to the planned start and completion dates?

We will compare the actual start and completion dates to the planned start and completion dates scheduled for conducting GQAC. We will report and document any departures from the original schedule and document the reasons for schedule variances between actual milestone dates and planned dates.

### **16.** What were the key lessons learned that can inform the GQAC operation in the 2020 Census?

During a series of debriefings with the GQ Contact persons, ACO staff, and the GQO-IPT will discuss and identify key lessons learned for improving operational processes for the 2020 GQAC operation. Some debriefing questions should include:

• What challenges or issues were noted during GQAC data collection using the telephone?

- How well did ACO clerks follow the paper calling script specific to the GQ type being contacted, conduct the interview, and enter the responses into the PCS?
- What issues were noted during the processing of the GQAC data? Was this data transmitted and captured in the PCS?
- Were there any issues using the paper scripts?
- How well did the PCS work?
- How well did the training prepare the ACO clerks to conduct telephone interviews? Were there any issues that arose that training did not cover?

### VI. Risks/Limitations

Several risks must be managed for this project. The risks are as follows:

- Budget may limit the ability to contact a broad range of GQ types.
- OMB approval to conduct the test must be received in time.
- No contingency plan to collect interview data using paper in the event that the PCS encounters issues or fails to collect and retain data.

Limitations to this research approach appear below:

- Actual budget to support the project may exceed the planned budget.
- GQAC conducted in English only.
- No data to evaluate new GQs because finding and processing new addresses (Adds) were removed from the scope for all 2018 End-to-End Census Test Operations.

### VII. Measures of Success

The 2018 End-to-End Census Test is the first opportunity to test the GQAC operation using new systems, applications, and procedures. If the systems do not function as intended or the data are not received as specified, we will use the lessons learned from this test to update the systems, applications, and procedures to prepare for a successful 2020 Census GQAC operation. We will consider the general occurrence of the following as indicators of success.

- Clerks are able to contact GQ administrators by telephone, when numbers are available.
- Clerks are able to use the paper calling scripts to enter the responses in the correct data fields in the PCS.
- GQ administrators participate in the interview, verify the address and contact information, and update or provide an expected population count.
- GQ administrators successfully select an enumeration method.
- Clerks are able to schedule a date and time for enumeration, as appropriate.
- Clerks are able to complete the GQAC a scheduled.

- GQAC data are passed to the enumeration operations to allow the enumeration activities to begin on schedule.
- Data are available to calculate GQAC costs at an acceptable level of detail.

### VIII. Data Requirements

Metadata and paradata as specified in the 2018 End-to-End Census GQAC Census Test Product Control System Software Requirements Specifications.

### IX. Division Responsibilities

Below indicates participating divisions and responsibilities for the analysis of data from the 2018 Census End-to-End Test GQAC.

Division	Division Members	Description of Responsibilities
DCMD	Dora Durante	Project Management Document Review
	Belkines Arenas-Germosen GQO IPT	<ul> <li>Providing content to the study plan and the analysis report</li> <li>Reviewing and providing comments to the study plan and analysis report</li> </ul>
	Diane F. Barrett	<ul> <li>Specifying requirements for data products needed to conduct the analysis</li> <li>Developing the study plan, conducting the analysis, and documenting the final results</li> <li>Reporting status updates to DCMD</li> </ul>
DITD	George David Tarr	• Delivering GQAC data from the Survey Operational Control System (SOCS) output data for analysis to DSSD
FLD	Census Field Manager (CFM) Office Operations Supervisor (OOS) ACO Clerks	Conducting the in-office GQ Advance Contact

### X. Milestone Schedule

Below are the standard schedule activities for the development of the research study plan and report. Definitions of acronyms are noted in the glossary section. Dates for the operational assessment report are to be determined.

Activity ID	Activity Name	Orig Duration	Start	Finish
Group Quar	ters Advance Contact (GQAC) Assessment Study Plan	l	I	I
First Draft				
	Prepare First Draft of GQAC Assessment Study Plan			
	Distribute First Draft of GQAC Assessment Study Plan Study Plan to the Assessment Sponsoring DCMD ADC and Other Reviewers			Jan-27-17A
	Incorporate DCMD ADC and Other Comments to < <title>&gt;&lt;br&gt;Study Plan&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Feb-21-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Initial Draft&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Prepare Initial Draft GQAC Assessment Study Plan&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Jun-16-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Distribute Initial Draft GQAC Assessment Study Plan to&lt;br&gt;Evaluations &amp; Experiments Coordination Branch (EXC)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Sep-26-17A&lt;br&gt;Oct-23-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;EXC Distributes Initial Draft GQAC Assessment Study&lt;br&gt;Plan to the DROM Working Group for Electronic Review&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Sep-26-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Receive Comments from the DROM Working Group on the&lt;br&gt;Initial Draft GQAC Assessment Study Plan&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Oct-16-17A&lt;/td&gt;&lt;td&gt;Nov-6-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Schedule the Draft GQAC Assessment Study Plan for the IPT&lt;br&gt;Lead to Meet with the DROM Working Group&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Discuss &amp; Incorporated DROM Comments on Initial Draft&lt;br&gt;GQAC Assessment Study Plan&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Nov-27-17A&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Final Draft&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Prepare Final Draft of GQAC Study Plan&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

Activity ID	Activity Name	Orig Duration	Start	Finish
	Distribute Final Draft SBE Assessment Study Plan to the DPMO and the EXC			
	Schedule and Discuss Final Draft GQAC Assessment Study Plan with the 2020 PMGB			Dec-13-17
	Incorporate 2020 PMGB Comments for Draft GQAC Assessment Study Plan			
	Prepare FINAL Draft GQAC Assessment Study Plan Study Plan			
	Distribute FINAL Draft GQAC Assessment Study Plan to the EXC			
	EXC Staff Distributes the Draft GQAC Assessment Study Plan and 2020 Memorandum to the DCCO			
	DCCO Staff Process the Draft 2020 Memorandum and the GQAC Assessment Study Plan to Obtain Clearances (DCMD Chief, Assistant Director, and Associate Director)			
	DCCO Staff Formally Release the GQAC Assessment Study Plan in the 2020 Memorandum Series			
GQAC Asses	sment Report			
First Draft of (	GQAC Assessment Report			
	Receive, Verify, and Validate GQAC Data			
	Examine Results and Conduct Analysis			
	Prepare First Draft of the GQAC Assessment Report			
	Distribute First Draft of GQAC Assessment Report to the Assessment Sponsoring DCMD ADC and Other Reviewers			
	Incorporate DCMD ADC and Other Comments to the GQAC Assessment Report			
Initial Draft of	GQAC Assessment Report	1	I	
	Prepare Initial Draft of the GQAC Assessment Report			
	Distribute Initial Draft of the GQAC Assessment Report to Evaluations & Experiments Coordination Br. (EXC)			
	EXC Distributes Initial Draft of the SBE Assessment Report to the DROM Working Group for Electronic Review			

Activity ID	Activity Name	Orig Duration	Start	Finish
	Receive Comments from the DROM Working Group on the Initial Draft of the SBE Assessment Report			
	Schedule the SBE Assessment Report for the IPT Lead to Meet with the DROM Working Group			
	Discuss DROM Comments on Initial Draft of the SBE Assessment Report			
Final Draft of	GQAC Assessment Report			
	Prepare Final Draft of the GQAC Assessment Report			
	Distribute Final Draft of the GQAC Assessment Report to the DPMO and the EXC			
	Schedule and Discuss Final Draft of the GQAC Assessment Report with the 2020 PMGB			
	Incorporate 2020 PMGB Comments on the GQAC Assessment Report			
Final of GOAC	CAssessment Report	1		
	Prepare FINAL GQAC Assessment Report			
	Deliver FINAL GQAC Assessment Report to the EXC			
	EXC Staff Distribute the FINAL GQAC Assessment Report and 2020 Memorandum to the DCCO			
	DCCO Staff Process the Draft 2020 Memorandum and the FINAL SBE Assessment Report to Obtain Clearances (DCMD Chief, Assistant Director, and Associate Director)			
	DCCO Staff Formally Release the FINAL GQAC Assessment Report in the 2020 Memorandum Series			
	EXC Staff Capture Recommendations of the FINAL GQAC Assessment Report in the Census Knowledge Management SharePoint Application			

### XI. Review/Approval

Role	Electronic Signature	Date
Fact Checker or independent verifier		
Author's Division Chief (or designee)		
Judy Belton		
DROM DCMD co-executive sponsor (or designee)		
DROM DSSD co-executive sponsor (or designee)		
Associate Director for R&M (or designee)		
Associate Director for Decennial Census Programs (or designee)		
2020 PMGB		

### XII. Document Revision and Version Control History

VERSION/EDITOR	DATE	REVISION DESCRIPTION	EAE IPT CHAIR APPROVAL
v. 01/Diane F. Barrett	01/09/2017	First Draft for Review & Comment	
v. 02/Diane F. Barrett	01/23/2017	Incorporated comments from 01/09.2017 First Draft & sent for GQAC Team Review & Comment by 02/07/2017.	
v. 0.3/Diane F. Barrett	02/16/2017	Incorporated comments from the 01/23/2017 First Draft Prepared Initial Draft for Review & Comment by 02/24/2017.	
v. 04/Diane F. Barrett	03/29/2017	Incorporated comments, waited to update report to include de-scoped decision. Prepared Final Draft for review and comment by 04/06/2017	
v.05/Diane F. Barrett	07/17/2017	Send Initial Draft to DSSD for comments and approval. Send to GQO- IPT for comments.	
v.1.0/Diane F. Barrett	09/26/2017	Incorporates comments from DSSD and GQO IPT. Sent Initial Draft to EAE to send to DROM.	
v.1.1/Diane F. Barrett	09/27/2017	Revised to incorporate comments from Field and update limitations. Adds have been de-scoped for all 2018 E2E CT operations. GQAC to be conducted in two phases.	
v.1.2/Diane F. Barrett	10/24/2017	Revised to incorporate the approved ESC decision to conduct a full GQAC for both SBE and non-SBE GQs. Sent to EAE to send to DROM for review.	

<b>V.1.3</b> /	Diane F. Barrett	12/11/2017		orporates DROM comments. Sent I draft to EAE to send to PMGB		
	Acronym			Definition		
	ACO			Area Census Office		
	DCMD			Decennial Census Management Division		
	DITD			Decennial Information Technology Division		
	DSSD			Decennial Statistical Studies Division		
	EXC			Experiments and Evaluations Branch		
	eResponse			Electronic Response Transfer		
	GEO			Geography Division		
	GQ			Group Quarters		
	GQAC			Group Quarters Advance Contact		
	GQE			Group Quarters Enumeration		
	GQAV			Group Quarters Advance Visit		
	GQV			Group Quarters Validation		
	MAF			Master Address File		
	SBE			Service-Based Enumeration		

### **XIV. References**

- Barrett, D. F., Williams, J. and Williams, A. (2013), "2010 Census Group Quarters Validation Operation Assessment Report," 2010 Census Planning Memorandum Series, No. 193 (Reissue), January 8, 2013.
- Barrett, D. F., Williams, J., Williams, A., DeVos, B., and Russell, D. (2013), "2010 Census Group Quarters Enumeration Assessment Report," 2010 Census Planning Memorandum Series, No. 243 (Reissue), January 29, 2013.
- Barrett, D. F., and Russell, D. (2013), "2010 Census Service-Based Enumeration Assessment Report," 2010 Census Planning Memorandum Series, No. 250, January 3, 2013.
- Tarr, George D. (2017), "2018 Group Quarters Advance Contact Production Control System Requirements Specification," September 25, 2017.
- Wang, C. J., Jones-Puthoff, M., and Butler, N. (2017), "Field Test on Revised and Research and Evaluation Report Memorandum Series" DRAFT August 2017.