



# **2020 Census**

## **August 2017**

# **Monthly Status Report**

All information in this report is as of August 31, 2017  
unless otherwise stated in the title of the page.

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## Key Program Updates

All staff, training, infrastructure, systems, and applications are in place for this month's (August) start of Address Canvassing, the first major operation of the **2018 End-to-End Census Test** (pp. 9-14). This operation is being conducted in three locations – the Bluefield-Beckley area of West Virginia; Pierce County, Washington; and Providence, Rhode Island. The Address Canvassing operation will conclude on September 29, 2017, with Quality Control activities concluding the following week. Also for this test, the Paperwork Reduction Act clearance package was delivered to the Office of Management and Budget for peak operations of the 2018 End-to-End Census Test, which will take place next spring and summer in Providence, Rhode Island. Based on the 2020 Census Integrated Master Schedule, through August 31, 2017, 46.6 percent of the 6,448 activities in the 2018 End-to-End Census Test had been completed (pp. 39-40).

For the Census Enterprise Data Collection and Processing (CEDCaP) program (pp. 35), work continues on Increment 21 commitments, covering In-Field Address Canvassing, Self-Response, and Field Enumeration for the 2018 End-to-End Census Test.

For **2020 Census operations**, the Local Update of Census Addresses (LUCA) Promotional Outreach events continued in August 2017 (pp. 23). A total of 570 promotional presentations have been completed as of August 25, 2017, and another 90 events are scheduled to be completed by November 2017. The Census Bureau completed printing and shipping the LUCA Invitation packages to tribal, state, and local governmental entities. As of August 30, 2017, the Census Bureau had received 6,595 responses. Of those, 3,421 had signed up to participate in the LUCA Operation and 3,174 had declined.

The 2020 Census Redistricting Data Program (RDP) finished processing the 966 counties with changes that had been submitted by June 7, 2017 (pp. 29). The RDP transmitted all 966 county files to Geography Division for insertion into the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) system. In addition, the RDP confirmed the remaining 2,254 counties in the program universe require no changes. The RDP also finalized the proposed design of the prototype 2020 P.L. 94-171 Redistricting Data File that will be produced from 2018 End-to-End Census Test data. A Federal Register Notice about this design is being prepared. The Census Bureau also awarded a contract to support an enhanced version of the current American Community Survey (ACS) tabulation system to be used for 2020 Census data tabulations.

The 2020 Census In-Office Address Canvassing Interactive Review production continues, and is meeting the expected production goals (pp. 23). The clerks have reviewed 11,155,309 blocks during Interactive Review from the beginning of production in September 2015 through August 31, 2017. They have completed 100 percent of the 11,155,486 total blocks nationally through the first pass of Interactive Review. As of August 31, 2017, 75.2 percent of the blocks were classified as Passive, 18.4 percent were classified as Active, and 5.0 percent were classified as On-Hold.

For the Census Bureau-United States Postal Service (USPS) Partnership effort, development of core program management artifacts continued, including an integrated project plan schedule, common reporting process, risk register, and roles and responsibilities matrix, with a targeted

## Key Program Updates Cont'd

completion of September 2017. Both the USPS and Census Bureau signed a Letter of Intent formalizing the enterprise partnership between the two organizations.

Revised Census Barriers, Attitudes, and Motivators Survey (CBAMS) quantitative and qualitative schedules have been developed by the Integrated Communication Contractor, Young & Rubicam (Y&R) to include a January 2018 start date.

Updates are underway for the next iteration of the 2020 Census Operational Plan, which is expected to be issued by October 2017. Detailed Operational Plans (DOPs) also will be prepared and released for each of the 35 operations that constitute the 2020 Census, and 15 of those DOPs already have been released in the 2020 Census Memorandum Series (available on the Census Bureau website at <<https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html>>).

Extensive engagements with stakeholders and oversight also continued (pp. 36-38). The Census Bureau provided comments to the Office of Inspector General (OIG) on their draft evaluation of the 2020 Census in-office address canvassing operation, and provided the Government Accountability Office (GAO) with an action plan in response to their final audit report on the same operation. GAO currently has two 2020 Census audits in progress, and the OIG has four.

Preparations are well underway to host the International Census Forum at the Census Bureau from September 5 – 8, 2017. Participating countries include Scotland, Ireland, Northern Ireland, England & Wales, Canada, New Zealand, and Australia. Preparations also are underway to conduct (and LiveCast on the web) the Fall Census Bureau Scientific Advisory Committee meetings at the Census Bureau from September 14 – 15, 2017.

Some other key program updates include:

### **2017 Census Test**

- Completed deployment of the Decennial Response File (DRF) 1 on August 14, 2017.
- Completed deployment of the Decennial Response File (DRF) 2 on August 22, 2017.
- Began deployment process of the Census Unedited File (CUF) on August 22, 2017.
- Incorporated feedback from the Paper Data Capture (PDC) Integrated Project Team (IPT) into the lessons learned document and shared the document with the Technical Integrator (TI) PDC team. The TI PDC team is using it as a reference tool as they develop deliverables related to 2018 End-to-End Census Test PDC operational planning.

### **2018 End-to-End Census Test**

- Learning Management System (LMS) online training went live on August 1, 2017.
- The 2018 Address Canvassing Operational Assessment study plan was reviewed by the 2020 Census Portfolio Management Governing Board (PMGB) on August 2, 2017.
- Held Operational Readiness Review (ORR) for Release A: Address Canvassing on August 7, 2017.

## Key Program Updates Cont'd

### 2018 End-to-End Census Test Cont'd

- Completed Address Canvassing Census Field Supervisor (CFS) classroom training at all three sites on August 10, 2017.
- Held Operational Readiness Review (ORR) for Recruiting Release 2: Field Enumeration on August 21, 2017.
- Delivered Recruiting kits and promotional materials for Peak Operations to the Providence, Rhode Island, Area Census Office (ACO) on August 21, 2017.
- Completed Lister, Census Field Supervisor (CFS), Quality Control (QC) Lister, and QC CFS Selections for Address Canvassing in the Providence, Rhode Island; Beckley, West Virginia; and Seattle, Washington, ACOs.
- Completed Address Canvassing Lister Training at all three sites on August 26, 2017.
- Began In-Field Address Canvassing on August 28, 2017.
- Submitted the full Paperwork Reduction Act package for the 2018 End-to-End Census Test to the Office of Management and Budget.
- Continued work to realize efficiencies and focus on high-priority components of the Census Questionnaire Assistance (CQA) solution due to current budget constraints.
- Finished reviewing and mapping solution requirements to capability requirements that were impacted by the descoping of CQA functionality.
- Baselined the initial CQA Interface Control Documents (ICDs), following the Decennial Technical Integrator's ICD governance process.
- Continued detailed schedule and requirements discussions with the Office of Information Security to reach agreement on the detailed process steps and schedule dates needed to achieve an Authorization to Operate (ATO) prior to the start of operations.
- Completed the first phase of the CQA system build. This phase focused on base functionality.
- Participated in a Joint Application Development (JAD) session with Systems Engineering and Implementation to finalize 2018 End-to-End Census Test Capability and Non-Functional Requirements.
- Developed a draft Technical Directive to provide support for the Intelligent Mail® Barcode (IMb) Postal Tracking System (IPTS) for the 2018 End-to-End Census Test during multiple sessions with the TI. (See page 12.)
- Translated Frequently Asked Question (FAQ) content for Census Questionnaire Assistance (CQA). These FAQs are being translated into all of the 2018 End-to-End Census Test languages that CQA has phone lines to support: Spanish, Chinese, Vietnamese, Korean, Russian, Arabic, and Tagalog.
- The Government Publishing Office (GPO) has received and is reviewing bids from the solicitation to acquire the necessary printing and mailing services for the 2018 End-to-End Census Test, with an option for extending through the 2020 Census. An award is planned for September 2017.
- The Decennial Service Center team provided on-site and Service Center IT support for Census Field Supervisor training, IT support documentation to Regional Census Centers and Area Census Offices IT support staff, and received IT support requirements from Address Canvassing operations. Completed draft design of the prototype P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. Revisions to the file structure to account for the use of a combined race and ethnicity question on the Test and

## Key Program Updates Cont'd

### 2018 End-to-End Census Test Cont'd

for a proposed group quarters table were presented to external stakeholders for discussion at the National Conference of State Legislatures. The final proposed prototype design is now being prepared for disclosure avoidance review and executive review as well as for publication for comment in the Federal Register.

- Continued development of core program management artifacts for the Census Bureau-United States Postal Service (USPS) Partnership including an integrated project plan, common reporting process, risk register, and roles and responsibilities matrix, with a new targeted completion of September 2017.
- Completed both USPS and Census Bureau signatures on a Letter of Intent formalizing the partnership between the two organizations.

### 2020 Census Operations

- Published the proposed information collection for the 2020 Census Participant Statistical Area Program on August 14, 2017.
- The LUCA Integrated Project Team's (IPT) LUCA Promotional Outreach events continued. A total of 570 promotional presentations have been completed as of August 25, 2017 and another 90 promotional events are scheduled to be completed by November 2017. Completed printing and shipping of LUCA Invitation packages on August 9, 2017 to tribal, state, and local governmental entities.
- Completed the 2020 Critical Design Review #2 (CDR #2) on August 28, 2017.
- Participated in multiple sessions with the Technical Integrator (TI) to define requirements around Paper Data Capture (PDC) data needs for the 2020 Census.
- The Redistricting Data Program (RDP) finished processing the 966 counties with changes submitted as of June 7, 2017. This refers to counties received in Block Boundary Suggestion Project verification where the states have indicated they would like modifications performed to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) system. The RDP passed all 966 counties to Geography Division for insertion into the MAF/TIGER system. In addition, the RDP has confirmed 2,254 counties as having no changes needed. These combined account for 100 percent of the counties in the program universe.
- The Redistricting Data Program (RDP) has finalized the design of the prototype 2020 P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. This design has begun circulating for disclosure avoidance approval and executive approval prior to submitting it for publication in the Federal Register for public comment.

## **Status of Major Tests**

## 2017 Census Test

### **Description**

Pursuant to 2020 Census Program Memorandum 2016.21, the scope of the 2017 Census Test was reduced in response to funding uncertainty in Fiscal Year 2017. As a result, the 2020 Census Program did not conduct the Fiscal Year 2017 field testing operations in the Standing Rock Reservation in North Dakota and South Dakota and the Colville Reservation and Off-Reservation Trust Land in Washington state. Field testing planned for three areas in Puerto Rico was also cancelled.

### **Key Activities**

Conduct Census Questionnaire Assistance (CQA) – March 20, 2017 – May 12, 2017 (completed May 12, 2017)

Conduct Self-Response, Including Non-ID Processing – March 20, 2017 – May 12, 2017 (completed May 12, 2017)

Census Day – April 1, 2017

Conduct Reinterview Operations – April 10, 2017 – July 10, 2017 (completed July 10, 2017)

### **Summary of Activities (Last 30 Days)**

#### *Internet Self-Response*

Continued analysis of 2017 Census Test data.

#### *Non-ID Processing*

1. Concluded analysis of automated and clerical processing results on August 14, 2017.
2. Completed initial draft of 2017 Census Test Analysis Report for Non-ID Processing operation for team's review on August 7, 2017.

#### *Response Processing*

1. Completed deployment of the Decennial Response File (DRF) 1 on August 14, 2017. Completed User Acceptance Testing on August 22, 2017.
2. Completed deployment of the Decennial Response File (DRF) 2 on August 22, 2017. Completed User Acceptance Testing on August 29, 2017.
3. Began deployment process of the Census Unedited File (CUF) on August 22, 2017. Began User Acceptance Testing on August 28, 2017.

#### *Paper Data Capture*

Incorporated feedback from the Paper Data Capture (PDC) Integrated Project Team (IPT) into the lessons learned document and shared the document with the Technical Integrator (TI) PDC team. The TI PDC team is using it as a reference tool as they develop deliverables related to 2018 End-to-End Census Test PDC operational planning.

### **Look Ahead (Next 60 Days)**

#### *Non-ID Processing*

Complete final draft of 2017 Census Test Analysis Report for Non-ID Processing operation.

#### *Internet Self-Response*

Continue analysis of 2017 Census Test data.

## 2018 End-to-End Census Test

### Description

The 2018 End-to-End Census Test objectives are to:

- Test and validate 2020 Census operations, procedures, systems, and field infrastructure together to ensure proper integration and conformance with all requirements.
- Produce a prototype of 2020 Census geographic and data products.

The Test includes aspects of all four key innovation areas of the 2020 Census Program: reengineering address canvassing, optimizing self-response, utilizing administrative records and third-party data, and reengineering field operations. Additionally, the Test will introduce enterprise systems that were not used in earlier census tests, expand systems already in use, and enhance system use of Cloud technologies.

The Address Canvassing portion of the Test is taking place in three sites: Providence County, Rhode Island; Pierce County, Washington; and the Bluefield-Beckley-Oak Hill area of West Virginia. Providence County's demographics mirror those of the nation, providing a microcosm of the 2020 Census experience. Pierce County offers a large military population, while Bluefield-Beckley-Oak Hill provides a very rural environment, simulating unique challenges that the Census Bureau will face in 2020. The remaining operations for the Test will continue in Providence County.

### Key Activities

Publish Paperwork Reduction Act Presubmission Federal Register Notice for Early Operations – October 7, 2016 (published on October 19, 2016)

Conduct In-Office Address Canvassing – November 16, 2016 – February 2, 2017 (started on September 26, 2016; completed on January 27, 2017)

Open Regional Census Centers (RCC) – January 3, 2017 (completed on January 3, 2017)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package for Early Operations – January 24, 2017 (published January 10, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Early Operations – March 27, 2017 (completed on March 23, 2017)

Publish Presubmission Federal Register Notice for Peak Operations – March 1, 2017 (completed on March 29, 2017)

Begin Recruiting for Early Operations – March 10, 2017 (began on March 31, 2017)

Open Area Census Offices (ACO) – March 31, 2017 (Providence ACO opened May 26, 2017; Beckley and Seattle ACOs opened July 17, 2017)

Finalize Partnership Staff Selection–August 18, 2017 (cancelled; due to FY17 budget constraints, partnership activities were descope from the 2018 End-to-End Census Test)

Deliver OMB (Paperwork Reduction Act) Clearance Package for Peak Operations – July 21, 2017 (completed on July 14, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Peak Operations – September 12, 2017

Conduct In-Field Address Canvassing – August 28, 2017 – September 29, 2017

Conduct In-Field Address Canvassing Listing Quality Control (QC) – September 5, 2017 – October 6, 2017

## 2018 End-to-End Census Test

### **Key Activities Cont'd**

Conduct Group Quarters (GQ) Advance Contact – February 5, 2018 – March 9, 2018  
Conduct Census Questionnaire Assistance (CQA) – March 19, 2018 – July 31, 2018  
Conduct Paper Data Capture – March 19, 2018 – August 31, 2018  
Conduct Self-Response, Including Non-ID Processing – March 19, 2018 – July 31, 2018  
Conduct GQ Enumeration – March 28, 2018 – June 8, 2018 (Including SBE)  
Conduct GQ Enumeration QC – April 4, 2018 – July 31, 2018  
Census Day – April 1, 2018  
Conduct Early Nonresponse Followup (NRFU) – April 3, 2018 – May 9, 2018  
Conduct Nonresponse Followup (NRFU) – May 10, 2018 – July 24, 2018  
Conduct NRFU Reinterview – April 4, 2018 – July 31, 2018  
Conduct Update Leave (UL) – April 16, 2018 – May 16, 2018  
Conduct UL Reinterview – April 19, 2018 – July 17, 2018 (cancelled as separate activity; merged with NRFU Reinterview due to similar operational needs)  
Conduct UL Listing QC – April 23, 2018 – May 23, 2018  
Conduct GQ Enumeration, Late Production – June 11, 2018 – July 24, 2018\*  
Publish Prototype P.L. 94-171 Data and Support Products – no later than April 1, 2019  
\*Adjusted finish date to reflect operation schedule.

### **Summary of Activities (Last 30 Days)**

#### *Evaluations and Experiments*

The 2020 Census Change Control Board continues to review global schedule change requests to ensure all 2018 End-to-End Census Test operations follow the standard activities listed in the operational assessment study plan template.

#### *Decennial Logistics Management*

1. Delivered recruiting kits and promotional materials for Peak Operations to the Providence, Rhode Island, Area Census Office (ACO) on August 21, 2017.
2. Delivered additional Address Canvassing training kits and Quality Control training kits to the Providence, Rhode Island, ACO and Beckley, West Virginia, ACO on August 14, 2017.

#### *Recruiting, Training, and Onboarding*

1. Completed Lister, Census Field Supervisor (CFS), Quality Control (QC) Lister, and QC CFS selections for Address Canvassing in Providence, Rhode Island; Beckley, West Virginia; and Seattle, Washington, ACOs.
2. Continued Lister, CFS, QC Lister, and QC CFS clearance through Census Investigative Services (CIS) for Address Canvassing in Providence, Rhode Island; Beckley, West Virginia; and Seattle, Washington, ACOs.
3. Learning Management System (LMS) online training went live on August 1, 2017.
4. Completed Address Canvassing Census Field Supervisor (CFS) classroom training at all three sites on August 10, 2017.
5. Completed Address Canvassing QC CFS Lister classroom training on August 18, 2017.

## 2018 End-to-End Census Test

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Recruiting, Training, and Onboarding Cont'd*

6. Conducted Supplemental Lister training in all three sites from August 24 – 31, 2017.
7. Began Quality Control Lister training on August 25, 2017.
8. Completed Address Canvassing Lister Training at all three sites on August 26, 2017.

#### *Program Management*

1. Submitted the full Paperwork Reduction Act package for the 2018 End-to-End Census Test to the Office of Management and Budget.
2. Held Operational Readiness Review (ORR) for Release A: Address Canvassing on August 7, 2017.
3. Published Paperwork Reduction Act Federal Register Notice for revised burden estimate for Early Operations on August 10, 2017.
4. Held Operational Readiness Review (ORR) for Recruiting Release 2: Field Enumeration on August 21, 2017.

#### *Internet Self-Response*

1. Continued development for Internet Self-Response (ISR) application, Census Questionnaire Assistance-Internet Self-Response (CQA-ISR) application, Translation Application, and Coverage Improvement Application.
2. Submitted Change Request to update all ISR requirements for the Test.
3. Awaiting resolution of Enterprise Censuses and Surveys Enabling-Internet Self-Response (ECaSE-ISR) blockers in order to begin project level testing, which had been scheduled to start on August 28, 2017.
4. Completed draft documentation of data flow from the ISR application to the Census Data Lake (CDL) on August 29, 2017. This will be used by ECaSE for the Interface Control Documentation (ICD).

#### *Census Questionnaire Assistance (CQA)*

1. Continued work to realize efficiencies and focus on high-priority components of the CQA solution due to current budget constraints.
2. Finished reviewing and mapping solution requirements to capability requirements that were impacted by the descope of CQA functionality on August 7, 2017. The revised requirements were delivered to the Systems Engineering and Integration's architecture team for final review.
3. Presented the draft CQA Study Plan for assessing the operation to the Decennial Research Objectives and Methods Working Group on August 10, 2017.
4. Baselined the initial CQA Interface Control Documents (ICDs), following the Decennial Technical Integrator's ICD governance process on August 14, 2017.
5. Continued detailed schedule and requirements discussions with the Office of Information Security to reach agreement on the detailed process steps and schedule dates needed to achieve an Authorization to Operate (ATO) prior to the start of operations.

## 2018 End-to-End Census Test

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Census Questionnaire Assistance (CQA) cont'd*

6. Completed the first phase of the CQA system build. This phase focused on base functionality. Completed collaborating with the Internet Self-Response Integrated Project Team to discuss CQA-identified items with the instrument that could be changed/updated in order to streamline the Customer Service Representative-caller interaction.

#### *Paper Data Capture (PDC)*

1. Participated in a Joint Application Development (JAD) session with Systems Engineering and Implementation to finalize 2018 End-to-End Census Test Capability and Non-Functional Requirements.
2. Defined requirements for the Paper Data Capture solution for Simulated Data during multiple sessions with the Technical Integrator (TI).
3. Participated in multiple sessions with the TI to define Performance Measures for Paper Data Capture (PDC) Technical Directive (TD) 113. TD 113 is a follow-on to TD 103 which provides support to the Paper Data Capture (PDC) solution. TD 113 allows the work to continue into the first optional Period of Performance (PoP) of TD 103.
4. Developed a draft Technical Directive to provide support for the Intelligent Mail® Barcode (IMb) Postal Tracking System (IPTS) for the 2018 End-to-End Census Test during multiple sessions with the TI. The IPTS is a Census Bureau system housed at the National Processing Center (NPC) used to ingest data from the United States Postal Service (USPS) IMb Tracing Service. The system generates records for each mail piece when the mail piece is processed through an automated sort. These events can be correlated to an expected delivery date of outbound mail or business reply mail entering or making its way to a paper data capture facility and can be used to inform PDC staff of workload spikes.

#### *Language Services*

Translated Frequently Asked Question (FAQ) content for Census Questionnaire Assistance (CQA). These FAQs are being translated into all of the 2018 End-to-End Census Test languages that CQA has phone lines to support: Spanish, Chinese, Vietnamese, Korean, Russian, Arabic, and Tagalog.

#### *Forms Printing and Distribution*

The Government Publishing Office (GPO) has received and is reviewing bids from the solicitation to acquire the necessary printing and mailing services for the 2018 End-to-End Census Test, with an option for extending through the 2020 Census. An award is planned for September 2017.

#### *Non-ID Processing*

1. Provided further revisions to detailed performance (operational progress) report requirements.
2. Completed initial draft of the Assessment Study Plan for Non-ID Processing and presented it to the Decennial Research Objectives and Methods (DROM) Group for discussion.

## 2018 End-to-End Census Test

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Nonresponse Followup*

1. Incorporated comments from the Decennial Research Objectives and Methods (DROM) group into the 2018 End-to-End Census Test Nonresponse Followup (NRFU) Assessment Study Plan.
2. Scheduled briefing with the 2020 Census Portfolio Management Governing Board (PMGB) on the 2018 End-to-End Census Test NRFU Assessment Study Plan.

#### *Update Leave (UL)*

Updated the Update Leave Assessment Study Plan based on comments from the Decennial Research Objectives and Methods (DROM) group. Delivered the final draft of the study plan to the Evaluations and Experiments Coordination Branch (EXCB) on August 10, 2017 to present to the 2020 Census Portfolio Management Governing Board (PMGB) in September.

#### *Group Quarters*

1. Delivered Census Field Supervisors training manuals and training guides.
2. Met with Enterprise Censuses and Surveys-Operational Control System (ECaSE-OCS) team and provided detailed Group Quarters Enumeration systems requirements specifications.

#### *Systems Engineering and Integration*

1. Conducted a series of Joint Application Development (JAD) sessions to accomplish acceptance of Release C (Self-Response) and D (Field Enumeration) capability requirements by development teams.
2. Gathered commitment for Program Increment 22 as part of the Census Enterprise Data Collection and Processing (CEDCaP) release train on August 24, 2017. (CEDCaP work is organized into a series of 40-day program increments; each increment begins with an all-day meeting where systems commit to completing the necessary development for capability requirements that are expected to be tested during upcoming Test Readiness Reviews.) For Program Increment 22, the focus of the CEDCaP project teams is Releases C (Self-Response) and D (Field Enumeration) for the 2018 End-to-End Census Test.

#### *Decennial Service Center*

1. Provided on-site and Service Center IT support for Census Field Supervisor training.
2. Provided IT support documentation to Regional Census Center (RCC) and Area Census Office (ACO) IT support staff.
3. Received IT support requirements from Address Canvassing operations.
4. Providence, Rhode Island, ACO IT support staff is receiving calls and providing IT support.
5. Beckley, West Virginia, and Pierce Co., Washington, ACOs are providing IT support via RCC IT support staff.

## 2018 End-to-End Census Test

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Redistricting Data Program*

Completed draft design of the prototype P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test on August 15, 2017. Revisions to the file structure to account for the use of a combined race and ethnicity question on the Test and for a proposed group quarters table were presented to external stakeholders for discussion at the National Conference of State Legislatures. The final proposed prototype design is now being prepared for disclosure avoidance review and executive review as well as for publication for comment in the Federal Register.

#### *United States Postal Service Coordination Team*

1. Continued development of core program management artifacts for the Census Bureau-United States Postal Service (USPS) Partnership including an integrated project plan, common reporting process, risk register, and roles and responsibilities matrix, with a new targeted completion of September 2017.
2. Completed both USPS and Census Bureau signatures on a Letter of Intent formalizing the partnership between the two organizations.

#### *Address Canvassing*

1. The 2018 Address Canvassing Operational Assessment study plan was reviewed by the 2020 Census Portfolio Management Governing Board (PMGB) on August 2, 2017. The document was approved and will move on to the decennial executive-level review process.
2. Began In-Field Address Canvassing on August 28, 2017.

#### *Data Products and Dissemination*

1. Reviewed the 2018 End-to-End Census Test Microdata Detailed File (MDF) requirements and provided feedback to Center for Disclosure Avoidance Research (CDAR) based on a newer proposed specification.
2. Received Server Acquisition approval for 2018 End-to-End Census Test Tabulation system and ordered servers.

#### *Census Enterprise Data Collection and Processing (CEDCaP) Product Release 8 (2018 End-to-End Census Test)*

1. Supported joint Decennial and CEDCaP Reviews.
2. Continued iterative development and testing for CEDCaP Capabilities.

### **Look Ahead (Next 60 Days)**

#### *Program Management*

1. Finalize the 2018 End-to-End Census Test Plan.
2. Receive OMB (Paperwork Reduction Act) approval for revised burden estimate for Early Operations on September 12, 2017.

## 2018 End-to-End Census Test

### Look Ahead (Next 60 Days) Cont'd

#### *Nonresponse Followup*

1. Review and prioritize requirements for Enterprise Censuses and Surveys-Operational Control System (ECaSE-OCS) Field and ECaSE-OCS Survey for Nonresponse Followup (NRFU) operations.
2. Submit specifications for Field Enumeration of Fraud Detection Recollect cases to the ECaSE-Enumeration application.
3. Brief the 2020 Census Portfolio Management Governing Board (PMGB) on the 2018 End-to-End Census Test NRFU Assessment Study Plan on September 6, 2017.

#### *Content and Forms Design*

Update Test materials with Office of Management and Budget (OMB) approval number and expiration date, upon receipt of approval.

#### *Internet Self-Response*

1. Update Detailed Operational Plan based on review by Decennial Census Management Division leadership.
2. Complete project level testing before the October 11, 2017 Test Readiness Review.
3. Work with Enterprise Censuses and Surveys Enabling (ECaSE) development team to complete and finalize documentation of data flow from Internet Self-Response applications (this must be finalized by October 11, 2017).

#### *Census Questionnaire Assistance (CQA)*

1. Finalize the 2018 End-to-End Census Test phase of the contract (Option period 1).
2. Complete the validation and confirmation of Release C Test Readiness Review (TRR) Exit Criteria documentation and dates, as it relates to CQA contractor deliverables.
3. Update the Integrated Master Schedule to include all final interfaces and external dependencies for CQA.
4. Finalize the Study Plan for the CQA Assessment.

#### *Non-ID Processing*

Complete final draft of the Assessment Study Plan for Non-ID Processing and present it to the 2020 Census Portfolio Management Governing Board for approval.

#### *Recruiting, Training, and Onboarding*

1. Begin Peak Operations Field Staff Recruiting for the Providence, Rhode Island, Area Census Office.
2. Award Third-Party Vendor (3PV) Fingerprinting Vendor Contract.
3. Allocate Technical Integrator (TI) resources to the badging system for enhanced development and testing in preparation for the 2020 Census. The badging team will look to create a development and testing schedule that will work cohesively with the 3PV Fingerprinting solution schedule.

## 2018 End-to End Census Test

### **Look Ahead (Next 60 Days) Cont'd**

#### *Language Services*

Begin project-level testing of translations of the Internet Self-Response instrument, Census Questionnaire Assistance (CQA) instrument, and Nonresponse Followup field enumeration instrument.

#### *Update Leave*

1. Finalize the priority of user stories for developing the Field Operational Control System (OCS).
2. Deliver a draft of the workload universe specification to the Enterprise Censuses and Surveys Enabling (ECaSE)-Operational Control System (OCS) Product Owner and development team.
3. Update the Update Leave Assessment Study Plan based on comments from the 2020 Census Portfolio Management Governing Board (PMGB).

#### *Group Quarters*

Conduct user acceptance testing for Group Quarters Advance Contact's Production Control System.

#### *Systems Engineering and Integration*

Conduct the Training Release 2 Test Readiness Review (TRR) on October 11, 2017. Conduct the first of two TRRs for Release C on October 11, 2017.

#### *Address Canvassing*

1. Complete Quality Control Lister training on September 1, 2017.
2. Begin In-Field Address Canvassing Quality Control on September 5, 2017.
3. Present In-Office Address Canvassing Evaluation to the 2020 Census Portfolio Management Governing Board (PMGB) on September 6, 2017.
4. Complete In-Field Address Canvassing production listing on September 29, 2017.
5. Complete In-Field Address Canvassing quality control listing on October 6, 2017.

#### *Geographic Programs*

Update Census Field Management Areas in the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System database. The delineation identifies the Census Field Management Areas, such as Census Field Manager areas and Census Field Supervisor areas, for inclusion in Geographic Reference Files. The Area Census Office and areas for Address Canvassing were completed earlier this year, but the Update Leave, Nonresponse Followup, and Group Quarter areas are being refined based on the latest operational needs.

#### *IT Infrastructure*

1. Conduct cloud Authority to Operate (ATO) activities for services, processes, and tools required for Release C (Self-Response).

## 2018 End-to-End Census Test

### Look Ahead (Next 60 Days) Cont'd

#### *IT Infrastructure Cont'd*

2. Support installation and configuration of infrastructure management applications in the Amazon Web Services Cloud.

#### *Decennial Service Center*

1. Continue to build Knowledge Base Articles and training materials for the Decennial Service Center and IT staff at the Regional Census Centers and Area Census Offices. These are being built so the IT staff at the Regional Census Centers and Areas Census Offices can be prepared to best help the customers who call the Decennial Service Center.
2. Continue supporting Regional Census Center staff.
3. Continue supporting Area Census Office staff.
4. Begin the process of obtaining IT support requirements for the Nonresponse Followup operation.

#### *United States Postal Service (USPS) Coordination Team*

1. Draft an Interagency Agreement documenting the requirements, schedule, and cost information for the Postal Carriers as Enumerators Pilot.
2. Finalize Interface Control Document and Interagency Agreement for automated mail tracing. Automated mail tracing refers to the Census Bureau's use of USPS software to track the status of a barcoded mail piece (such a census questionnaire) in the mail stream; as a barcode is scanned at a Postal sorting facility or Post Office, Census Bureau users of the Intelligent Mail® Barcode Postal Tracking System (IPTS) can see the status/location of that mail piece. The IPTS at the National Processing Center requires three signed documents, including the two mentioned above, in order to be able to receive a production Authority to Operate from the Office of Information Security prior to the Test.

#### *Paper Data Capture*

Begin the enterprise System Development Life Cycle (eSDLC) process for the Intelligent Mail® Barcode Postal Tracking System (IPTS). This is a Census Bureau system housed at the National Processing Center (NPC) used to ingest data from the United States Postal Service (USPS) Intelligent Mail® Barcode Tracing Service.

#### *Data Products and Dissemination*

Finalizing CPASS log-in requirements for embargo feature and provide to Telecommunications Office for data dissemination during the Test. The CPASS system provides the means of communication and implementation of embargo for data products. The embargo will permit state officials, State Data Centers, and the media advance access to the data before it is made public.

## 2018 End-to-End Census Test

### **Look Ahead (Next 60 Days) Cont'd**

*Census Enterprise Data Collection and Processing (CEDCaP) Product Release 8 (2018 End-to-End Census Test)*

1. Release to production CEDCaP capabilities for Release A (In-Field Address Canvassing for Test).
2. Support joint Decennial and CEDCaP Reviews.
3. Continue iterative development and testing for CEDCaP Capabilities.

## **Address Canvassing Test**

### **Description**

The Address Canvassing Test conducted in 2016 focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas. See Appendix C for more details.

### **Summary of Activities (Last 30 Days)**

No activities in August.

### **Look Ahead (Next 60 Days)**

The Address Canvassing Test Analysis Report will be scheduled for 2020 Census Portfolio Management Governing Board (PMGB) review.

## 2016 Census Test

### Description

The 2016 Census Test was an operational study of both self-response and nonresponse followup procedures. See Appendix C for more details.

### Status of Current Activities

Analysis reports are undergoing final decennial executive-level clearance. Once complete, the reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

#### *Reports under Development/Review*

- 2016 Census Test Analysis – Non-ID Processing Report (Expected completion on August 31, 2017)
- 2016 Census Test Report – Overview (Expected completion on December 29, 2017.)
- 2016 Census Test Coverage Reinterview Analysis Report (Expected completion was April 30, 2017; delayed until September 8, 2017 due to resource limitations.) (Approved by the Decennial Research Objectives and Methods (DROM) Group and the 2020 Census Portfolio Management Governing Board (PMGB). Decennial executive-level clearance initiated on July 20, 2017.)
- 2016 Group Quarters Electronic Response Independent Test Analysis Report (Detailed report will not be produced due to resource issues. A high-level summary document will be issued in the Decennial Statistical Studies Division's Memorandum Series.)
- 2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report (Expected completion on September 29, 2017.)
- 2016 Census Test Administrative Record Usage Report (Expected completion on September 29, 2017.)
- 2016 Census Test: In-Office Address Canvassing Report (This report will not be produced due to resource issues. Release of any relevant results will be issued in the Decennial Statistical Studies Division's Memorandum Series.)
- 2016 Census Test Nonresponse Followup Operational Assessment Report (Expected completion TBD.) In development.

#### *Reports Issued*

- 2016 Census Test: Non-ID Response Validation Recollect Analysis Report was issued in the 2020 Census Memorandum Series on July 27, 2017.
- 2016 Service-Based Enumeration Census Test Analysis Report was issued in the 2020 Census Memorandum Series on August 15, 2017.
- 2016 Census Test–Evaluating the Decennial Census Call-in Option: Results from an Interviewer Debriefing of the 2016 Census Test Report was issued in the 2020 Census Memorandum Series on August 18, 2017.

# Status of Major 2020 Census Operations

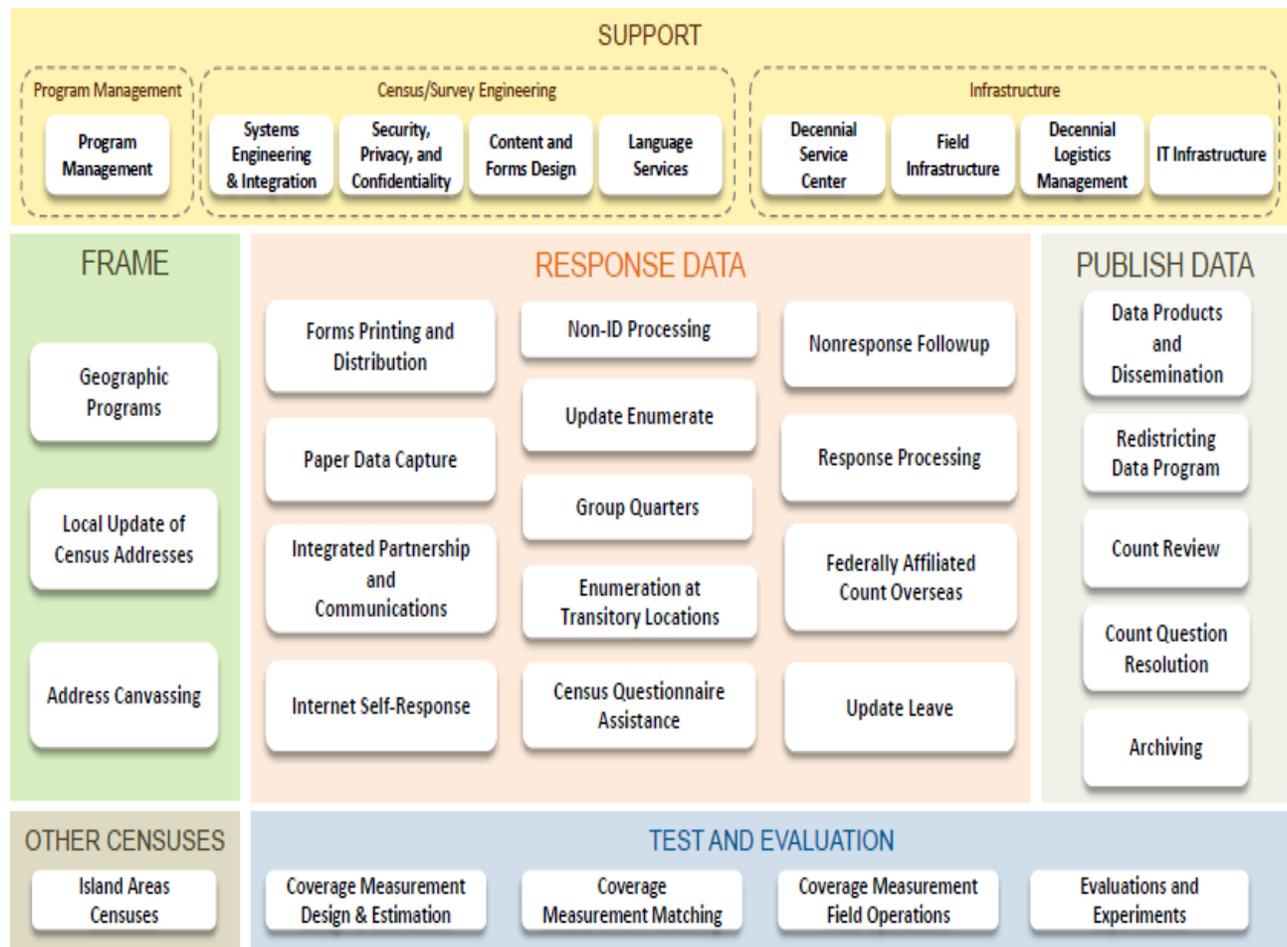
The 2020 Census includes 35 operations that are organized into eight major areas that correspond with the Census Bureau standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

The status of these operations is reported on the following pages, which are organized by major area. Please note, only operations that are underway are discussed on the following pages.

Appendix A describes the 35 operations of the 2020 Census.

Completed or planned activities specifically supporting past or current Tests are reported on the relevant Test pages (pages 7 – 20). Otherwise, they are reported on the relevant 2020 Census Operations pages (pages 22 – 34).

**Figure 1: Operational Overview by WBS**



## Census/Survey Engineering

### Description

Four operations support the Census/Survey Engineering area of the 2020 Census: Systems Engineering and Integration (SE&I); Security, Privacy, and Confidentiality; Content and Forms Design; and Language Services. For the description of these operations, please see Appendix A.

**Table 1: SE&I Review Descriptions**

Review	Description
<b>Critical Business Proposal Review (CBR)</b>	Review of initial high-level architecture to ensure inclusion of appropriate systems to implement the desired subset of the 35 operations.
<b>Project Baseline Review (PBR)</b>	Review of program baselines. Schedule, organizational structure, Risk, etc.
<b>Systems Requirements Review (SRR)</b>	Joint review of PLBR/CAP requirements by engineering and operations.
<b>Critical Design Review (CDR)</b>	Review of high-level architecture and detailed business processes that define the subset of operations, interfaces, etc. Includes allocation of requirements to systems and the defined releases.
<b>Test Readiness Review (TRR)</b>	Ensures appropriate test objectives, methods procedures, scope and environments. Assesses readiness of systems to begin independent Program-Level testing. Marks the beginning of testing by the Program Test Team.
<b>Production Readiness Review (PRR)</b>	Assessment of test results to ensure systems are ready for operations testing.
<b>Operational Readiness Review (ORR)</b>	Assessment of operational testing to ensure full operation is ready to go-live.

**Table 2: SE&I Release Functionality Key**

Release	Functionality
<b>Release A</b>	In-Field Address Canvassing
<b>Release B</b>	Coverage Measurement – Independent Listing
<b>Release C</b>	Self-Response
<b>Release D</b>	Field Enumeration
<b>Release E</b>	Tabulation/Dissemination
<b>Release F</b>	RESERVED
<b>Release G</b>	Geographic Programs / Local Update of Census Addresses (LUCA)
<b>Release H</b>	RESERVED
<b>Release I</b>	In-Office Address Canvassing
<b>Release J</b>	RESERVED
<b>Release K</b>	Coverage Measurement – Initial Housing Unit Followup, Person Interview
<b>Release L</b>	Coverage Measurement – Person Interview Matching
<b>Release M</b>	Coverage Measurement – Person Followup
<b>Release N</b>	Coverage Measurement – Final Housing Unit Followup
<b>Release O</b>	Coverage Measurement – Reports & Release Findings
<b>Release P</b>	Partnership Activities
<b>Recruiting Release 1</b>	Address Canvassing, Coverage Measurement – Independent Listing, and Initial Housing Unit Followup Recruiting
<b>Recruiting Release 2</b>	Field Enumeration, Coverage Measurement – Person Interview, Person Followup, and Final Housing Unit Followup Recruiting
<b>Training Release 1</b>	Address Canvassing Training
<b>Training Release 2</b>	Field Enumeration Training
<b>Coverage Measurement Sample Release</b>	Initial Sample for Coverage Measurement

## Census/Survey Engineering

### **Summary of Activities (Last 30 Days)**

#### *Systems Engineering and Integration (SE&I)*

Completed the 2020 Critical Design Review #2 (CDR #2) on August 28, 2017. Systems Engineering and Integration (SE&I) and Program-Level Change Requests recently proposed four 2020 System Requirement Reviews, Critical Design Reviews, Test Readiness Reviews, and Production Readiness Reviews (the original plan was for one of each).

#### *Content and Forms Design*

Continued gathering requirements for 2020 Census questionnaires and materials from other operations.

### **Look Ahead (Next 60 Days)**

#### *Systems Engineering and Integration (SE&I)*

Hold Software Requirements Review #3 (SRR3) on September 28, 2017. Hold CDR #3 on October 26, 2017.

#### *Security, Privacy, and Confidentiality*

Work with the Policy Coordination Office to develop a checklist that helps program areas depict what should be updated in the Privacy Threshold Analysis when a major change occurs to a system.

## Frame

### Description

Three operations support the frame area of the 2020 Census: Geographic Programs; Local Update of Census Addresses (LUCA); and Address Canvassing. For the description of these operations, please see Appendix A.

### Summary of Activities (Last 30 Days)

#### *Geographic Programs*

1. Continued Participant Statistical Area Program (PSAP) internal review processing at the National Processing Center.
2. Continued Geographic Partnership Support Desk (GPSD) operations to support incoming calls.
3. Published the proposed information collection for the 2020 Census Participant Statistical Area Program on August 14, 2017.
4. Completed assessment of the spatial extent of military files and started processing to update these special land use areas.

#### *Local Update of Census Addresses (LUCA)*

The LUCA Integrated Project Team's (IPT) LUCA Promotional Outreach events continued. A total of 570 promotional presentations have been completed as of August 25, 2017 and another 90 promotional events are scheduled in September through November 2017. Completed printing and shipping of LUCA Invitation packages on August 9, 2017 to tribal, state, and local governmental entities. Within the invitation packages are the registration forms and security guideline forms which the governmental entities will need to return before they can participate in the LUCA address review. As of August 30, 2017, the Census Bureau had received 6,595 responses from the 39,332 unique governments that are eligible to participate and therefore received invitations. Of those, 3,421 had signed up to participate in the LUCA Operation and 3,174 had declined.

#### *Address Canvassing*

The 2020 Census In-Office Address Canvassing Interactive Review production continues, and is meeting the expected production goals. The clerks have reviewed 11,155,309 blocks during Interactive Review from the beginning of production in September 2015 through August 31, 2017. They have completed 100 percent of the 11,155,486 total blocks nationally through the **first pass** in Interactive Review. Going forward, blocks will continue to be triggered back in for review as needed. Forty-two staff are working Interactive Review (IR) in production, and 18 are performing Quality Control (QC). This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time.
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review.
- On Hold = blocks that need new imagery to do the Interactive Review.

As of August 31, 2017, 75.2 percent of the blocks were classified as Passive, 18.4 percent were classified as Active, and 5.0 percent were classified as On-Hold. As of August 31, 2017, 163,473

## Frame

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Address Canvassing Cont'd*

blocks have been triggered for IR re-review. Triggered blocks which are still being worked through IR will be included in the "Total Blocks Reviewed" number above, but not be included in any of the Totals (Active, Passive, Hold) until they are re-reviewed. The triggered blocks accounted for 1.6 percent of the total completed. Blocks may remain in "On Hold" status for review at a later date due to "future growth" (for instance, there are signs that construction will be taking place but the houses are not built) or "imagery issues" (for instance, cloud cover obscures views of the structures).

The 2020 Census In-Office Address Canvassing Ungeocoded Resolution production began in April 2017 and continues. Ungeocoded Resolution is a component of In-Office Address Canvassing that investigates the records that were not resolved from the automated Delivery Sequence File update and matching process, and attempts to assign block codes by reviewing local source data available in-house as well as online.

Ungeocoded Resolution has three stages:

- Production - Production staff work the ungeocoded records.
- Quality Control (QC) - QC staff review the production work.
- Monitoring - Monitoring staff review the QC staff's work, which is a final review to determine what records have been geocoded (resolved) and which have been referred (on hold). Referred records will remain on hold until a later date.

As of August 31, 2017, staff have geocoded 284,148 address records out of the universe of 2,800,896 ungeocoded address records.

1. Presented final draft of the Master Address File Coverage Study 2016 Analysis Report to the 2020 Census Portfolio Management Governing Board (PMGB) on August 16, 2017. This document was approved.
2. Submitted all 2020 Address Canvassing specifications for review on August 17, 2017.
3. Submitted all Address Canvassing capability requirements and business process models for the 2020 Census, for rebaselining, on August 18, 2017. Official baselining to be completed in September.

#### *United States Postal Service (USPS) Coordination Team*

1. Continued development of core program management artifacts for the Census Bureau-USPS Partnership organization including an integrated project plan, common reporting process, risk register, and roles and responsibilities matrix, with a new targeted completion of September 2017.
2. Completed both USPS and Census Bureau signatures on a Letter of Intent formalizing the enterprise partnership between the two organizations.

## Frame

### **Look Ahead (Next 60 Days)**

#### *Address Canvassing*

1. Participate in the Critical Design Review for the 2020 Census.
2. Begin the In-Office Address Canvassing Group Quarters project at the National Processing Center.

#### *Local Update of Census Addresses (LUCA)*

1. Continue to conduct LUCA Promotional Workshops. These workshops are conducted by Census Bureau staff to potential LUCA participants, including representatives from tribal, state, and local governments. There are 90 workshops scheduled for September 2017 through November 2017.
2. Complete the requirements needed to develop the software that will generate the census address lists for participants. The address lists will be delivered to participants starting in February 2018.
3. Complete and finalize address count list software requirement specifications (SRS) for LUCA. This entails completing the requirements to develop the software that will generate the address count lists for LUCA blocks. The list will show the number of addresses per block for participants to use during their LUCA review.
4. Complete and finalize Geographic Support System matching and Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System matching SRS for LUCA. This entails completing the requirements needed to develop the address matching rules for comparing the MAF to what participants submit as their LUCA review. This is done to validate the submissions.
5. Complete entering information from LUCA Invitation forms received from tribal, state, and local governments.

#### *United States Postal Service (USPS) Coordination Team*

1. Coordinate a September 2017 meeting with all executive champions (both Census Bureau and USPS senior managers), working group members and chairs. The meeting represents the quarterly meeting of the leads for each of the five active USPS-Census Bureau Working Groups. Each Working Group is led by a USPS and Census Bureau co-chair and are gathered together to provide program-wide updates and establish common goals and practices.
2. Finalize an Interface Control Document that defines requirements for an automated process to track the status of census questionnaires mailed with Intelligent Mail Barcode technology.

## Response Data

### Description

Thirteen operations support the response data area of the 2020 Census: Forms Printing and Distribution; Paper Data Capture; Integrated Partnership and Communications; Internet Self-Response; Non-ID Processing; Update Enumerate; Update Leave; Group Quarters; Enumeration at Transitory Locations; Census Questionnaire Assistance; Nonresponse Followup; Response Processing; and Federally Affiliated Count Overseas. For the description of these operations, please see Appendix A.

### Summary of Activities (Last 30 Days)

#### *Paper Data Capture*

1. Participated in multiple sessions with the Technical Integrator (TI) to develop a draft Technical Directive to provide support for the Intelligent Mail® Barcode Postal Tracking System (IPTS) for the 2020 Census on August 7, 8, 9, 10, 11, 24, and 29, 2017. The IPTS is a Census Bureau system housed at the National Processing Center (NPC) and used to ingest data from the United States Postal Service (USPS) Intelligent Mail® Barcode (IMb) Tracing Service. The system generates records for each mail piece when the mail piece is processed through an automated sort. These events can be correlated to an expected delivery date of outbound mail or business reply mail entering or making its way to a paper data capture facility and can be used to inform PDC staff of workload spikes.
2. Participated in multiple sessions with the Technical Integrator (TI) to define Performance Measures for Paper Data Capture (PDC) Technical Directive (TD) 113 on August 7, 8, 10, and 24, 2017. TD 113 is a follow-on to TD 103 which provides support to the Paper Data Capture (PDC) solution. TD 113 allows the work to continue into the first optional Period of Performance (PoP) of TD 103.
3. Received the Concept of Operations (ConOps) for the Intelligent Mail® Barcode (IMb) Postal Tracking System (IPTS) to be used for the 2020 Census on August 15, 2017; now reviewing.
4. Participated in multiple sessions with the Technical Integrator (TI) to define requirements around Paper Data Capture (PDC) data needs for the 2020 Census on August 16, 22, 23, and 28, 2017.

#### *Integrated Partnership and Communications (IPC) Program*

1. Revised Census Barriers, Attitudes, and Motivators Survey (CBAMS) quantitative and qualitative schedules have been developed by the Integrated Communication Contractor (Team Y&R) to include a January 2018 start date.
2. Published Federal Register Notice (FRN) in support of the Census Barriers, Attitudes, and Motivators Survey (CBAMS) on August 16, 2017.

#### *Nonresponse Followup (NRFU)*

1. Conducted NRFU specification walk-throughs with key internal stakeholders ahead of the August 18, 2017 deadline for 2020 specifications.
2. Reviewed and finalized the list of NRFU respondent materials with Content & Forms Design (CFD) on August 21, 2017.
3. Submitted updated 2020 specifications to the Response Processing Operation (RPO) and the Office of Innovation & Implementation (OII) on August 31, 2017.

## Response Data

### **Summary of Activities (Last 30 Days) Cont'd**

#### *Census Questionnaire Assistance (CQA)*

Began the revisions to the document text needed to revise the CQA Detailed Operational Plan on August 3, 2017.

#### *Update Leave (UL)*

1. Received all UL Integrated Project Team (IPT) comments on the 2020 Census UL Detailed Operational Plan on August 9, 2017; currently incorporating the changes to continue the document through the review process.
2. Met with Content and Forms Design on August 10, 2017 to discuss field material requirements for the Puerto Rico Census.
3. Created the 2020 UL Risk Register on August 18, 2017 and moved all current UL risks and issues from the UE Risk Register to the new register.

#### *Update Enumerate (UE)*

1. Began development of the enumerator questionnaire to support the paper-based enumeration process.
2. Received a demonstration of the current Enterprise Censuses and Surveys Enabling (ECaSE) Field Operations Control System (FOCS) on August 21, 2017 to begin developing user stories that support the UE operation. Received the outline shell of the 2020 Census UE Detailed Operational Plan to begin formally documenting the plans of the operation.

#### *Group Quarters*

1. Delivered Group Quarters Detailed Operational Plan to Decennial Project Management Office.
2. Submitted cost estimate to start system development for Address List Update's frame and universe work.
3. Began work on Group Quarters Advance Contact's Production Control System specification requirements.

#### *Enumeration at Transitory Locations (ETL)*

1. Began work with Content and Forms Design to draft a questionnaire for ETL.
2. Met with Geography Division to evaluate solutions for maps and geocoding for ETL enumerations.
3. Submitted updated capability requirements and Business Process Model for allocation.
4. Submitted forms requirements to Content and Forms Design for stateside and Puerto Rico.

#### *Federally Affiliated Count Overseas (FACO)*

1. Updated capability requirements and Business Process Model for system allocation.
2. Submitted Change Request 418 to update the baseline capability requirements.
3. Met with Content and Forms Design to provide requirements for mailing materials.

## Response Data

### Look Ahead (Next 60 Days)

#### *Integrated Partnership and Communications (IPC)*

Receive decennial executive-level approval of the 2020 Census Partnership Engagement Plan.

#### *Paper Data Capture*

1. Review and comment on the proposed solution and physical architecture for the Intelligent Mail® Barcode Postal Tracking System (IPTS).
2. Review and comment on the Concept of Operations (ConOps) for the IPTS.
3. Receive a revised Analysis of Alternatives (AoA) regarding an automated conveyor for Paper Data Capture (PDC) operations in the 2018 End-to-End Census Test and 2020 Census.
4. Receive and review an AoA for the proposed paper handling process for Paper Data Capture operations in the 2018 End-to-End Census Test and 2020 Census.
5. Work with the Technical Integrator team to initiate a change via their change management process to redefine delivery dates for some deliverables and work products to be provided via Paper Data Capture (PDC) related Technical Directives. The intent is to ensure products received provide thorough business value as opposed to simply meeting deadlines.

#### *Update Leave (UL)*

1. Develop the 2020 Census Integrated Master Schedule for the operation.
2. Deliver the final version of the UL Detailed Operational Plan for approval and release.

#### *Update Enumerate (UE)*

1. Develop the 2020 Census Integrated Master Schedule for the operation.
2. Complete the initial draft of the 2020 UE Detailed Operational Plan.

#### *Group Quarters*

1. Complete development of Group Quarters Advance Contact and Group Quarters Enumerations 2020 Census Integrated Master Schedule.
2. Deliver 2020 Group Quarters Detailed Operational Plan to 2020 Census Executive Steering Committee.
3. Develop and create Maritime Vessels Enumeration process and forms.

#### *Federally Affiliated Count Overseas (FACO)*

1. Update specifications for changes to the data collection instrument.
2. Develop the 2020 Census Integrated Master Schedule for the operation.

#### *Nonresponse Followup*

1. Baseline the 2020 Census Nonresponse Followup (NRFU) Detailed Operational Plan.
2. Develop plans and procedures for User Acceptance Tests of the Enterprise Censuses and Surveys Enabling (ECaSE) systems.
3. Develop the 2020 Census Integrated Master Schedule for NRFU.

## **Publish Data**

### **Description**

Five operations support the publish data area of the 2020 Census: Data Products and Dissemination; Redistricting Data Program; Count Review; Count Question Resolution; and Archiving. For a description of these operations, please see Appendix A. These operations are active as we prepare for the 2018 End-to-End Census Test.

### **Summary of Activities (Last 30 Days)**

The Redistricting Data Program (RDP) finished processing the 966 counties with changes submitted as of June 7, 2017. This refers to counties received in Block Boundary Suggestion Project verification where the states have indicated they would like modifications performed to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) system. The RDP passed all 966 counties to Geography Division for insertion into the MAF/TIGER system. In addition, the RDP has confirmed 2,254 counties as having no changes needed. These combined account for 100 percent of the counties in the program universe.

The RDP has finalized the design of the prototype 2020 P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. This design has begun circulating for disclosure avoidance approval and executive approval prior to submitting it for publication in the Federal Register for public comment.

### **Look Ahead (Next 60 Days)**

#### *Data Products and Dissemination*

Finalizing solution requirements and Systems Engineering and Integration artifacts with Gunnison for 2020 Census Tabulation System.

#### *Redistricting Data Program*

1. Invite official liaisons to participate in Phase 2, the Voting District Project, of the Redistricting Data Program while informing legislative leadership of that invitation.
2. Submit for publication in the Federal Register, as part of Phase 3—Data Delivery of the RDP, the proposed design for the 2020 Census P.L. 94-171 Redistricting Data File to be produced as a prototype product from the 2018 End-to-End Census Test.

## Test and Evaluation

### Description

Four operations support the Test and Evaluation area of the 2020 Census: Coverage Measurement Design and Estimation; Coverage Measurement Matching; Coverage Measurement Field Operations; and Evaluations and Experiments. For the description of these operations, please see Appendix A.

### Summary of Activities (Last 30 Days)

*The Coverage Measurement Design and Estimation Integrated Project Team:*

1. Continued updating the Post-Enumeration Survey (PES) Design and Estimation Business Process Model.
2. Continued working on simulating the sample design for the 2020 PES.
3. Completed the final round of reviews of high-level design requirements for Independent Listing, Initial Housing Unit Matching and Followup, and Final Housing Unit Matching and Followup.
4. Continued developing the following specification files:
  - 2020 PES: Initial Sample of Basic Collection Units for Independent Listing Parameter File Software Requirements Specification
  - 2020 PES: Initial Sample of Basic Collection Units for Independent Listing Software Requirements Specification
  - 2020 PES: Person Interview Sample Identification Parameter File Specification
  - 2020 PES: Person Interview Sample Identification Software Requirements Specification
  - 2020 PES Small Basic Collection Units Subsampling Software Requirements Specification

*The Coverage Measurement Field Operations and Matching Integrated Project Team:*

1. Continued updating PES Field and Matching Business Process Models.
2. Continued updating the Integrated Master Schedule.
3. Presented the Coverage Measurement Field Operations and Matching risks to the 2020 Census Risk Review Board.
4. Continued developing PES Field Operations and Matching specifications and user stories.

*The Evaluations and Experiments team:*

The Decennial Research Objectives and Methods (DROM) working group received fourteen 2020 Census evaluation proposals and fifteen 2020 Census experiment proposals and initiated the process for review and selection. For defining a 2020 Census research program, the Decennial Census Management Division (with input from the Decennial Research Objectives and Methods Group, or DROM), put a call out to all Decennial Programs Directorate participating divisions/offices to submit evaluation and experiment proposals. Following review and selection by the DROM, their recommended evaluations and experiments will go to the 2020 Census Portfolio Management Governing Board, and following that review, will go to the 2020 Census Executive Steering Committee for ultimate decisions as to the scope of the research program.

## Test and Evaluation

### **Summary of Activities (Last 30 Days) Cont'd**

*The Evaluations and Experiments team cont'd*

The DROM working group reviewed the following:

1. Study Plan for the 2018 End-to-End Census Test: Field Office Administration and Payroll Operational Assessment on August 8, 2017
2. Study Plan for the 2018 End-to-End Census Test: Recruiting, Onboarding and Training Operational Assessment on August 8, 2017
3. Study Plan for the 2018 End-to-End Census Test: Forms Printing and Distribution Operational Assessment on August 9, 2017
4. Study Plan for the 2018 End-to-End Census Test: Geographic Programs Operational Assessment on August 9, 2017
5. Study Plan for the 2018 End-to-End Census Test: Census Questionnaire Assistance Operational Assessment on August 10, 2017
6. Study Plan for 2018 End-to-End Census Test: Self-Response Rates on August 10, 2017
7. Study Plan for the 2018 End-to-End Census Test: Non-ID Processing Operational Assessment on August 11, 2017
8. Study Plan for Hidden Housing Units on August 24, 2017
9. Study Plan for Imputation for Component Errors: 2020 Post-Enumeration Survey on August 31, 2017

### **Look Ahead (Next 60 Days)**

*The Coverage Measurement Design and Estimation Integrated Project Team will work on the following activities:*

1. Continue updating the Post Enumeration Survey (PES) Design and Estimation Business Process Model.
2. Revise initial drafts of the E-Sample Imputation Study Plan.
3. Review risks in the 2020 Coverage Measurement Design and Estimation Risk Register. Present the Coverage Measurement Design and Estimation 2020 Census risks to the 2020 Census Risk Review Board.
4. Revise the Coverage Measurement Design and Estimation schedule and integrate with other operational 2020 Census schedules.
5. Continue developing sampling specifications. (Coverage Measurement has four sampling operations: Select Initial Sample of PES Basic Collection Units (BCUs), Subsample PES Small BCUs, Select PES Person Interview Housing Unit Sample, and Select E-Sample Housing Units.)

*Coverage Measurement Field Operations and Matching Integrated Project Team will work on the following activities:*

1. Continue building an Integrated Master Schedule for the PES Field and Matching operations.
2. Baseline the PES Field Operations and Matching Business Process Models and capability requirements.
3. Work with the Coverage Measurement Design and Estimation Integrated Project Team to document high-level design requirements.
4. Continue developing PES Field Operations and Matching specifications and user stories.

## Test and Evaluation

### **Look Ahead (Next 60 Days) Cont'd**

*Evaluations and Experiments* team will:

1. Baseline the 2020 Census Demographic Analysis project charter.
2. Support the Decennial Research Objectives and Methods (DROM) working group in the review, vetting, and selection of 2020 Census experiments and evaluations.

## Infrastructure

### **Description**

Four operations support the infrastructure area of the 2020 Census: Decennial Service Center; Recruiting, Training and Onboarding; Decennial Logistics Management; and Information Technology (IT) Infrastructure. For the description of these operations, please see Appendix A.

### **Summary of Activities (Last 30 Days)**

#### *IT Infrastructure*

Continued to work with Acquisitions Division to modify the Field IT Deployment Request for Proposal and Acquisition Plan based on recommendations from the Census Contract Review Board and from the Department of Commerce.

#### *Decennial Service Center*

Completed draft Requisition package and forwarded to Decennial Contracts Execution Office management for review.

#### *Recruiting, Training, and Onboarding*

The Technical Evaluation Team (TET) and Price Evaluation Team (PET) evaluated Third Party Vendor (3PV) Fingerprinting Proposals.

### **Look Ahead (Next 60 Days)**

#### *IT Infrastructure*

1. The Data Center/Data Capture Center will build a development environment at the Technical Integrator (TI) facility.
2. Systems Integration and Migration will complete the 2020 Census Program Migration Plan and Decennial IT Roadmap updates.
3. Release the final Request for Proposal for the Field IT Deployment contract.
4. Complete installation of 2020 Census On-Premise network infrastructure at the Bowie, Maryland, Computer Center.
5. Complete physical connectivity between Census Bureau and 2020 Census On-Premise at the Bowie, Maryland, Computer Center.
6. Finalize the Detailed Operational Plan.

#### *Decennial Service Center*

1. Finalize and release the 2020 Census Decennial Services Contract draft Request for Proposal.
2. Finalize 2020 Decennial Census Operations Plan and submit all necessary documents to Decennial Contracts Execution Office/2020 Census Technical Integrator Program.
3. Create and integrate 2020 Census Decennial Service Center schedule into the 2020 Census master schedule.

#### *Decennial Logistics Management*

Provide draft 2020 Census Continuity of Operations (COOP)/Disaster Recovery Plans to Decennial Census Management Division management. The plans will cover Regional Census Center and Area Census Office mission critical activities.

# **Additional Updates**

## **Census Enterprise Data Collection and Processing (CEDCaP)**

### **Description**

The Census Enterprise Data Collection and Processing (CEDCaP) major transformation initiative continues efforts to streamline how the Census Bureau will collect and process data across all our censuses and surveys. In the past, the Census Bureau created and used a new, unique system for every survey and census we conducted. By creating an enterprise-wide approach to data collection and processing that is adaptable based on each customer's needs, CEDCaP will lead to more streamlined workflows and less duplication. This initiative focuses on building data collection capabilities for 2020 Census while taking into consideration the challenges of data collection and cost of development.

### **Summary of Activities (Last 30 Days)**

*CEDCaP Product Release 9–2020 Census (Decennial)*

1. Supported joint decennial and CEDCaP reviews.
2. Supported joint decennial and CEDCaP schedule development.
3. Continued work on the vision/scope for the 2020 Census Release specific to CEDCaP systems.

### *CEDCaP Program*

Continued work on CEDCaP Program Increment 21 commitments. The CEDCaP release management uses a 40-day development cycle called program increments. For Program Increment 21, the focus of the CEDCaP project teams is Releases A, C, and D for the 2018 End-to-End Census Test. Release A covers In-Field Address Canvassing, Release C is Self-Response, and Release D is Field Enumeration.

### **Look Ahead (Next 60 Days)**

*CEDCaP Product Release 9 –2020 Census (Decennial)*

1. Support joint decennial and CEDCaP schedule development.
2. Support joint decennial and CEDCaP Reviews.
3. Baseline the CEDCaP 2020 Census vision/scope.

### *CEDCaP Program*

Complete CEDCaP Program Increment 21 system development commitments and begin Program Increment 22. For both Program Increments 21 and 22, the focus of the CEDCaP project teams is Releases A, C, and D for the 2018 End-to-End Census Test. Program Increments are consecutive 40-day intervals in which Agile development is done.

## Oversight & Stakeholder Engagement

### Description

This section describes major activities related to Government Accountability Office (GAO) and Office of the Inspector General (OIG) audits (e.g., new audits, exit meetings for completed audits, issuance of draft and final reports, preparation of agency action plans); congressional hearings related to the 2020 Census; and presentations and working meetings with our advisory committees, the 2020 Census National Academy of Sciences Standing Committee on Reengineering Census Operations, and other external stakeholders.

### Summary of Activities (Last 30 Days)

1. Updates are underway for the next iteration of the 2020 Census Operational Plan, which is expected to be issued by October 2017. Detailed Operational Plans (DOPs) also will be prepared and released for each of the 35 operations that constitute the 2020 Census, and 15 of those DOPs already have been released in the 2020 Census Memorandum Series (available on the Census Bureau website at <https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html>).
2. Continued working actively to close open recommendations from GAO and OIG. Received verbal confirmation in August that one GAO open recommendation is closed.
3. Held entrance meeting for an OIG audit *on Address Canvassing of the 2018 End-to-End Test* on August 9, 2017. The objectives of this audit are to assess the performance of Address Canvassing field operations; and determine whether In-Office Address Canvassing correctly identified blocks for In-Field Address Canvassing.
4. Held entrance meeting for GAO audit *on Address Canvassing in the 2018 End-to-End Test* on August 15, 2017. Scope includes the Bureau's plans for the address canvassing operation in the Test, evaluating whether the Test was conducted according to those operational plans and schedule, as well as evaluating to what extent the technology and operational components perform as planned, and what opportunities and challenges were identified that the Census Bureau can build on for the 2020 Census.
5. Submitted comments on OIG draft report *2020 Census: Evaluation of Interactive Review Address Canvassing Operation* on August 28, 2017.
6. Submitted the Action Plan for final report GAO-17-622: *2020 Census: Bureau Needs to Better Leverage Information to Achieve Goals of Reengineered Address Canvassing* on August 28, 2017. GAO recommends that the Census Bureau use evaluations before the 2020 Census to determine the implications of in-office address canvassing on the cost and quality of address canvassing, and use this information to justify decisions related to its re-engineered address canvassing approach; to plan and execute a more flexible, and perhaps smaller, addressing canvassing test and evaluation activity needed to support key design decisions having significant effect on the cost and quality of the 2020 Census; and to use productivity measures that track the progress in completing in-office address canvassing workload and the effectiveness of in-office address canvassing in reducing fieldwork in order to make informed decisions on allocating resources to current and future address canvassing workload so that the operation is completed in a timely and cost-effective manner. The Census Bureau has no disagreements with the findings and is now developing an action plan in response to the final report to address the recommendations.
7. GAO currently has two audits in progress related to the 2020 Census, and OIG has four:

## Oversight & Stakeholder Engagement

### Summary of Activities (Last 30 Days) Cont'd

#### GAO

- Continues to audit the Census Bureau's readiness for the 2018 End-to-End Census Test, evaluate the extent to which the Census Bureau has backup plans to ensure the successful implementation of key IT capabilities needed for the 2020 Census, and determine the extent to which the Census Bureau has effectively planned and implemented information securing protections in preparation for the 2018 End-to-End Census Test and ultimately the 2020 Census.
- Continues to audit the Census Bureau's Address Canvassing operations for the 2018 End-to-End Census Test. The audit is seeking to answer two questions: 1) What are the plans for the Address Canvassing operation in the Test, and was the Test conducted according to those plans? 2) To what extent did the technology and operational components perform, and what opportunities were identified that the Census Bureau can build on for the 2020 Census?

#### OIG

- Continues to audit the accuracy of the cost estimate used in the Census Bureau's May 2016 CEDCaP COTS Capability Assessment and Analysis report. This month OIG informed us that they are moving to close this audit and will be sending a summary of their activity shortly.
- Continues to audit the Census Bureau's internal policies and procedures for conducting background checks on temporary employees, and to determine whether the Census Bureau has an effective plan in place to conduct background checks for temporary employees who will be hired during the 2020 Census tests and decennial field operations.
- Continues to audit Area Census Office (ACO) locations, the decision process for determining the number and location of ACOs for the 2020 Census, and the involvement of the General Services Administration.
- Continues to audit the Census Bureau's Address Canvassing operations for the 2018 End-to-End Test. The audit is focusing on two areas: 1) assessing the performance of address canvassing field operations and 2) determining whether in-office address canvassing correctly identified blocks for in-field address canvassing.

### Look Ahead (Next 60 Days)

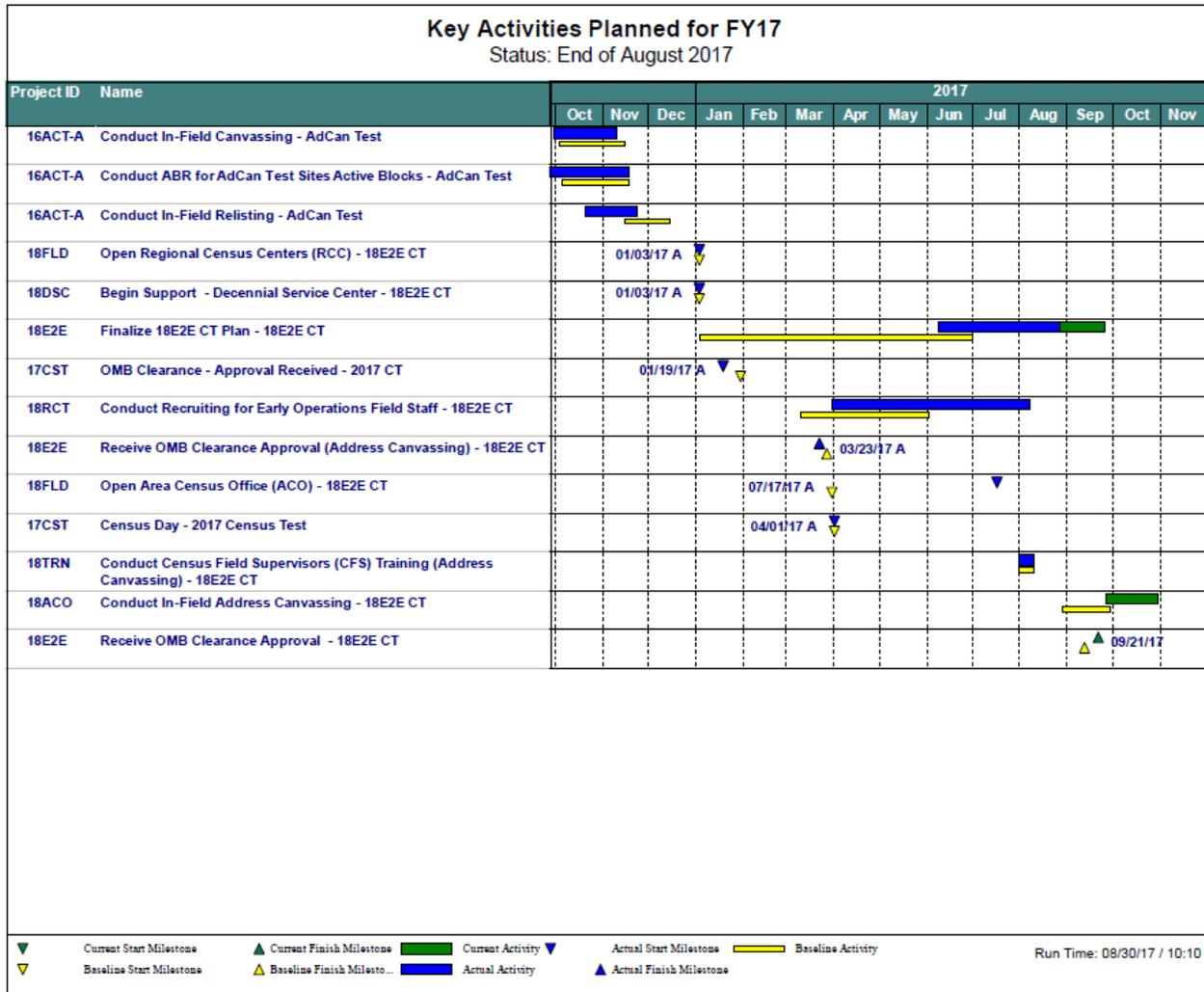
1. Host the International Census Forum at the Census Bureau, September 5 – 8, 2017. Participating countries include Scotland, Ireland, Northern Ireland, England & Wales, Canada, New Zealand, and Australia.
2. Participate in the Census Bureau Scientific Advisory Committee fall meetings, September 14 – 15, 2017.
3. Deliver action plan in response to the final report GAO-17-622: *2020 Census: Bureau Needs to Better Leverage Information to Achieve Goals of Reengineered Address Canvassing* to Congress and GAO by September 18, 2017.
4. Hold quarterly meeting with GAO to discuss Open Recommendations, Strategies and Priorities on September 26, 2017.
5. Hold entrance meeting on September 26, 2017, on new audit GAO is starting on the 2020 Census Schedule.

## **Oversight & Stakeholder Engagement**

### **Look Ahead (Next 60 Days) Cont'd**

6. Participate in the United Nations Economic Commission for Europe, Conference of European Statisticians, in Geneva, Switzerland, October 2 – 6, 2017.
7. Participate in the Population Association of America's Committee on Population Statistics, October 12 – 13, 2017.
8. Participate in the Alaska Federation of Natives 2017 Annual Convention in Anchorage, Alaska, October 19 – 21, 2017.

## Program Schedule Metrics Research & Testing



### Explanations for Project Start/Finish Delays

Activity 18E2E-10180: "Finalize 18E2E CT Plan - 18E2E CT"

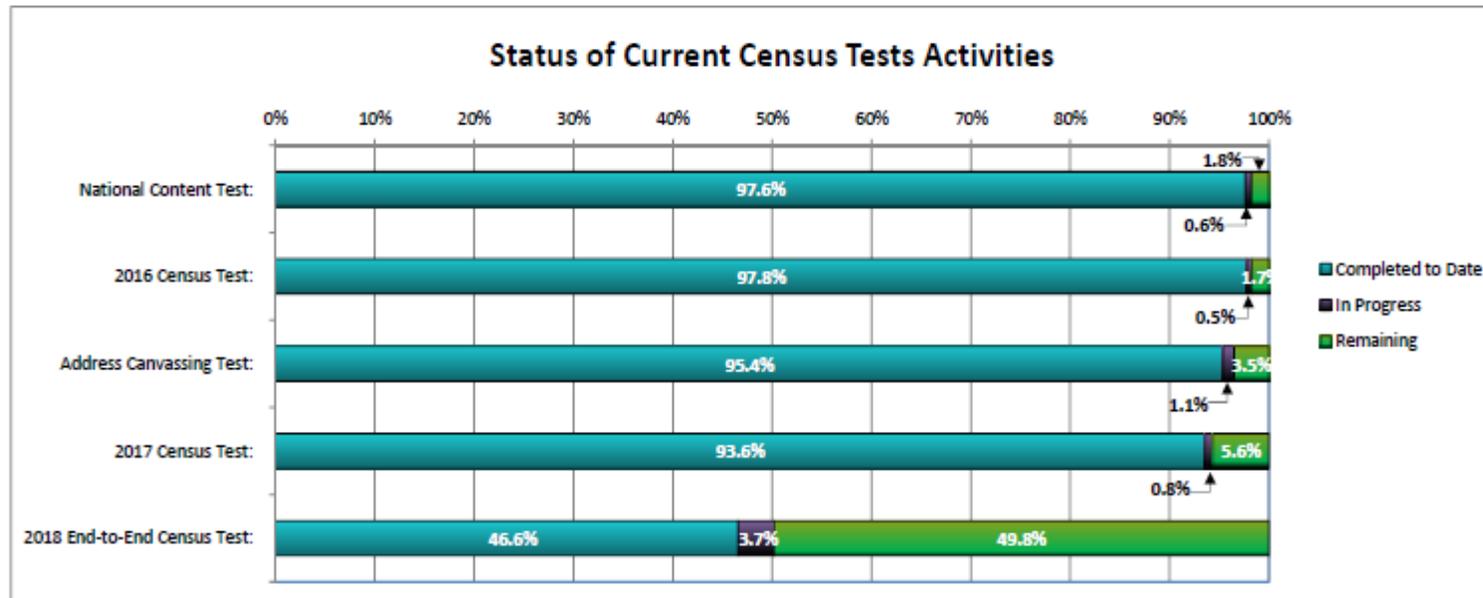
Reason for Delay: Need to update Test Plan to reflect recent changes. Assistant Division Chief review will conclude by August 24, 2017. Then need to send through Decennial Census Management Division Chief review and then executive review. This may take until September 30, 2017.

Activity 18ACO-11000: "Conduct In-Field Address Canvassing –18E2E CT"

Reason for Delay: No delay anticipated at this time.

## Program Schedule Metrics Research & Testing

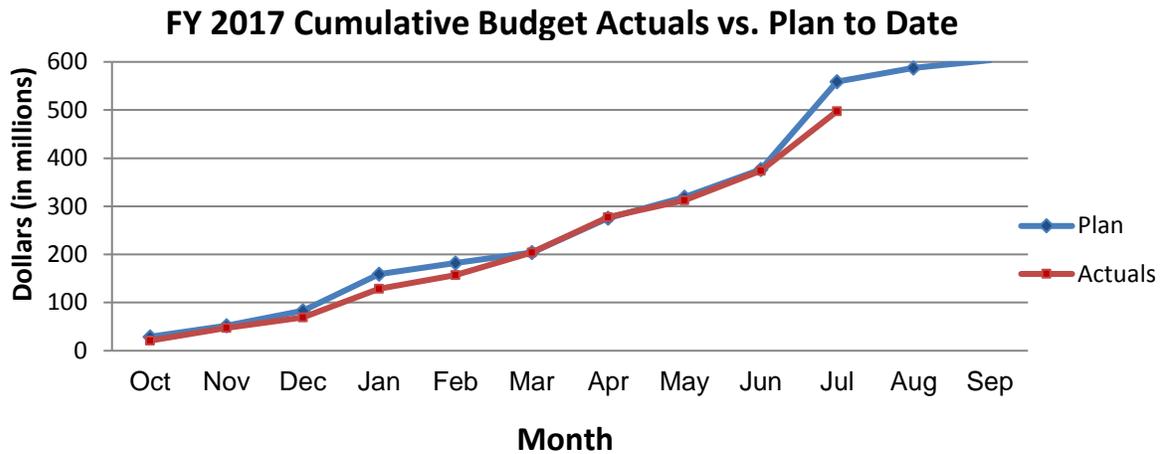
### Status of Census Tests through August 31, 2017



	Total Activities	Completed to Date	In Progress	Remaining
2015 National Content Test:	1181	1153	7	21
2016 Census Test:	1888	1846	10	32
Address Canvassing Test:	628	599	7	22
2017 Census Test:	1648	1542	13	93
2018 End-to-End Census Test:	6448	3002	236	3210

Processed on: 8-30-2017

## Program Budget/Costs as of July 31, 2017



	July Cum Plan	July Cum Actuals	July Cum Variance	% Variance
<b>GRAND TOTAL</b>	<b>\$558,789,332</b>	<b>\$497,727,312</b>	<b>\$61,062,020</b>	<b>10.9%</b>

At the end of July, the \$61.1M variance in the 2020 Census program consists of \$9.3M lower than expected costs in salaries and \$51.7M lower than expected costs in other objects. Salary variance due to vacancies not being filled as quickly as originally anticipated, 2) Master Address File (MAF) Coverage Study has ended, 3) work began later than expected for the Local Update of Census Addresses (LUCA) workshops and the Test Planning, Project Management and Support project, and 4) Post Enumeration Survey was descoped from the 2018 End to End Census Test. Vacancies will now be filled as we received our Enacted Budget. The other objects variance is due to delay in obligation of the following contracts: 1) to provide management and technical support to the Technical Integrator (TI) Government Program Management Office (GPMO), 2) Geographic Update Partnership System (GUPS) and Geographic data processing product, 3) American Community Survey (ACS)-Decennial Tabulation, 4) Decennial Devices as a Service (dDAAS), 5) Elastic Search suite, 6) SMarCS Development Support, 7) Regional Census Center (RCC) Build-out, 8) Enterprise Service Bus/Service Oriented Architecture (ESB/SOA) support for Census - Schedule A Human Resources and Recruiting Payroll System (C-Sharps), 9) Oracle maintenance and Quality and Enterprise Development Services (QEDS) to support all the Enterprise Service Oriented Architectures (ESOA) infrastructure and Application Program Interface (API) services for the Technical Integrators (TI).

**Program Budget/Costs as of July 31, 2017**

<b>R1 Program Management</b>	\$57,422,207	\$52,082,232	\$5,339,975	9.3%
<p>The variance in this area consists of \$0.06M lower than expected costs in salaries and \$4.7M lower than expected costs in other objects. Salary variance due to vacancies not being filled as quickly as originally anticipated. The other objects variance is due to the following: 1) contract to provide management and technical support to the TI Government Program Management Office (GPMO), and 2) contingency funds in the Program Management Project will be used for critical unfunded requirements.</p>				
<b>R2 Census/Survey Engineering</b>	\$184,886,116	\$156,164,264	\$28,721,852	15.5%
<p>The variance in this area consists of <b>\$0.06M</b> higher than expected costs in salaries and \$28.7M lower than expected costs in other objects. The salary variance is due to the Content and Forms Design and Language work requiring more time than initially planned. The other objects variance is due to internal workflow delays in obligating the committed funds to the Technical Integration contracts which supports the 2020 Census Program in ensuring the architectural integrity and interoperability of the 2020 Census System of Systems (SOS).</p>				
<b>R3 Frame</b>	\$53,583,896	\$43,270,830	\$10,313,066	19.2%
<p>The variance in this area consists of \$1.4M lower than expected costs in salaries and \$8.9M lower than expected costs in other objects. The salary variance is due to the following: 1) the MAF Coverage Study ended sooner than anticipated, 2) work began later than expected for the LUCA workshops, and 3) vacancies not being filled as quickly as originally anticipated. The majority of the other objects variance is due to the delay in obligating the following: 1) Exadata Hardware maintenance contract, 2) GUPS contract to provide web-based and stand-alone systems to update the MAF/TIGER, 3) contract to cover the Geographic data processing production, and 4) changes in the scope of work delayed printing and postage for the LUCA operations.</p>				
<b>R4 Response Data</b>	\$81,674,240	\$95,991,778	<b>(\$14,317,538)</b>	<b>-17.5%</b>
<p>The variance in this area consists of <b>\$3.4M</b> higher than expected costs in salaries and <b>\$10.9M</b> higher than expected costs in other objects. The IPC Operations and the CQA program funding does not cover the staffing levels. Variance will continue to grow on a monthly basis. The other objects variance is due to the CQA Engineering and Technical Services contract costs for the 2018 End-to-End test are higher than anticipated and the early commitment of the dDAAS contract which consist of the mobile device acquisition, logistics, provisioning, management, cellular network coverage, and decommissioning services needed to support the 2020 Decennial Census. There is no impact to the program as there is sufficient funding in the later months to cover this shortfall.</p>				

**Program Budget/Costs as of July 31, 2017**

<b>R5 Published Data</b>	\$19,563,193	\$15,852,785	\$3,710,408	19.0%
<p>The variance in this area consists of <b>\$0.08M</b> higher than expected costs in salaries and \$3.8M lower than expected costs in other objects. The salary variance is due to the Advertising Campaign work is requiring more time than initially planned. The other objects variance is due to the delay in obligating the following contracts: 1) aid in the enhancement of the existing ACS Tabulation System to transform it into the new ACS-Decennial Tabulation System, and 2) Elastic Search contract that provides critical search/indexing support, researching the latest technology and strategies to find information for both structured and unstructured content based on Census Dissemination System and Customer Innovation (CEDSCI) content metadata and the Geography repository.</p>				
<b>R6 Test and Evaluation</b>	\$33,256,135	\$27,471,509	\$5,784,626	17.4%
<p>The variance in this area consists of \$3.4M lower than expected costs in salaries and \$2.4M lower than expected costs in other objects. The salary variance is due to the following: 1) vacancies not being filled as quickly as originally anticipated, 2) due to the change in the scope of work in the Test Planning, Project Management and Support project, NPC and the Telephone Center funds were spread incorrectly and work began later than expected, and 3) Address Canvassing salaries were charged to FY16 project number causing a surplus in the FY17 project. The other objects variance is due to the following: 1) re-scoping of the 2018 End-to-End test. There were delays in procuring the office space, rent, equipment, postage and supplies for the End-to-End sites, and 2) SMaRCS Development Support contract for the Sampling, Matching, Review, and Coding System development.</p>				
<b>R7 Infrastructure</b>	\$128,403,545	\$106,893,914	\$21,509,631	16.8%
<p>The variance in this area consists of \$7.5M lower than expected costs in salaries and \$14.0M lower than expected costs in other objects. Salary variance due to vacancies not being filled as quickly as originally anticipated. The other objects variance is due to delay in obligating the following: 1) Field management training contract with OPM for the RCC/ACO, 2) build-out for the RCCs, 3) ESB/SOA support for C-SHARPS, and 4) Oracle maintenance and QEDS to support all the ESOA infrastructure and API services for the TI new environments, and 5) minimal spending in travel, training, and supplies due to the CR. There is no impact to the program as we expect these obligations to occur in the fourth quarter.</p>				

**Notes:**

1) Explanations are required for frameworks with variances that are equal to or greater than +/- 10% OR greater than +/- \$500k.

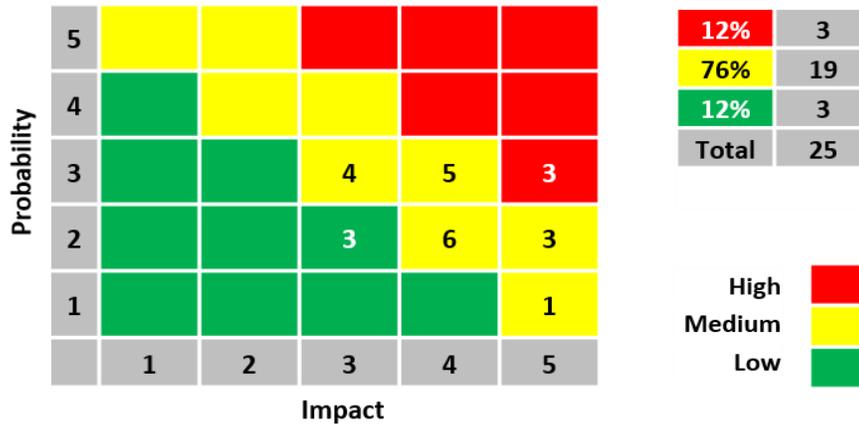
2) We report budget variance data as currently as possible. When the Monthly Status Report is prepared, we have not yet received budget variance data from the current month, so data from the previous month is what we include.

## Program-Level Life Cycle Risks

	Risk ID	Name	Level	Prior Level	Trend	Prob	Imp
1	LC-033	Administrative Records And Third-Party Data - External Factors	H	H	↔	3	5
2	LC-039	Public Perception Of Ability To Safeguard Response Data	H	H	↔	3	5
3	LC-041	Cybersecurity Incidents	H	H	↔	3	5
4	LC-010	Enterprise IT Solutions	M	M	↔	3	4
5	LC-036	Operations And Systems Integration	M	M	↔	3	4
6	LC-038	Testing Of Field Operations Quality Control Procedures	M	M	↔	3	4
7	LC-042	Late Operational Design Changes	M	M	↔	3	4
8	LC-046	Insufficient Levels Of Staff With Subject Matter Skillsets	M	M	↔	3	4
9	LC-043	Cloud Implementation	M	M	↔	3	3
10	LC-044	Systems Scalability	M	M	↔	3	3
11	LC-045	Major Disasters	M	M	↔	3	3
12	LC-047	Demand Model Accuracy	M		NEW	3	3
13	LC-028	Internet Data Collection	M	M	↔	2	5
14	LC-034	Administrative Records And Third-Party Data - Access And Constraints	M	M	↔	2	5
15	LC-040	Funding Requests Not Realized	M	H	↑	2	5
16	LC-001	Cost Model Projections	M	M	↔	2	4
17	LC-012	External Support	M	H	↑	2	4
18	LC-021	Schedule Impacts	M	M	↔	2	4
19	LC-022	Technological Innovations Surfacing After Design Is Finalized	M	M	↔	2	4
20	LC-027	IT Security Controls	M	M	↔	2	4
21	LC-029	Contract Management	M	M	↔	2	4
22	LC-004	ACS Funding And Integration	M	M	↔	1	5
23	LC-011	Acquisition Lead Time	L	L	↑	2	3
24	LC-016	Policy Impacts	L	L	↔	2	3
25	LC-023	Inconclusive Data	L	L	↔	2	3

Risk Trend
↑
Improving
↔
No Change
↓
Worsening

### Program-Level Life Cycle Risks



The following changes were made since the July Monthly Status Report:

1. LC-012\_External Support: The Probability rating was lowered from 4 to 2 because the new stakeholders have been brought up to speed on the status of the program and the 2020 Census staff still continues to work with all stakeholders to ensure support for the program.
2. LC-040\_Funding Requests Not Realized: The Probability rating was lowered from 4 to 2 because the FY17 budget was received and the budget appropriated for FY18 is expected to be at a level that will support the program’s objectives.
3. LC-047\_Demand Model Accuracy: Risk was added because operational changes that affect the workloads for those operations need to be incorporated into the demand models in a timely manner to ensure the system developers are building the system to account for the increase. The scalability of all systems depends heavily on the accuracy of the workload demand models.
4. The program issue titled “Additional Workload for the Address Canvassing Operation” (created from LC-032\_Reengineering Address Canvassing Operation) remained open. Description: For the 2010 Census, a near-100 percent Address Canvassing operation in the field was used to update and validate a complete and accurate inventory of addresses, which forms the basis for the census enumeration. For the 2020 Census, a variety of “in-office” techniques are used to update and validate the completeness of the address inventory. These “in-office” techniques were expected to reduce the areas requiring field work while achieving an equal or greater quality result, thereby reducing costs and improving quality for the overall 2020 Census Program. The established threshold of addresses for update and validation through “in-office” techniques is 75 percent, with a plan to send about 25 percent of addresses for field canvassing, as cited in the 2020 Census Operational Plan and the Detailed Operational Plan for Address Canvassing. Due to significant issues with productivity and quality control, two major components of the reengineered Address Canvassing operation, known as Active Block Resolution (ABR) and the Master Address File Coverage Study (MAFCS) have been suspended for the remainder of FY2017. Active Block Resolution (ABR) uses a variety of sources to perform MAF updates in areas of change identified by the Interactive Review (IR) process and provides high-quality frame information to the Address Canvassing Operation. The MAF Coverage Study (MAFCS) was designed to 1) update the MAF on a continuous basis by field listing 20,000

blocks each year; 2) provide estimates of MAF coverage on a national and subnational basis; and 3) validate the In-Office Address Canvassing methodology.

Impact: The suspension of the ABR and MAFCS projects will result in an increased universe for field canvassing for 2020 Address Canvassing. The exact increase is unknown, but the suspension will almost certainly result in a field workload above the 25 percent threshold. This change will result in cost increases and increased potential for schedule adjustments associated with the additional field listing. In-Field Address Canvassing will need to scale up its listing operations by January 1, 2019 when field offices are scheduled to open. This change also has the potential to affect quality control (QC) work, as the scale and nature of sampling are likely to be affected. The pause in these two projects will make it difficult to meet the objectives of the reengineered Address Canvassing operation and is likely to impact customer expectations and public trust of the Census Bureau.

5. The program issue titled “Modification to the 2020 Census Baselined Design” (created from LC-003\_Meeting Cost Goal) remained open.

Description: The design for the 2020 Census was baselined in October 2015 and documented in the 2020 Census Operational Plan. In 2017, operational changes were decided on that have altered the baselined design. For example, the Address Canvassing operation suspended two of its projects, which will result in an increase in the field workload. In addition, the Update Enumerate operation will be paper-based and the Update Leave operation was added to the 2020 Census Program to cover most of the areas originally covered by Update Enumerate. The Group Quarters operation is mostly paper-based now as well. Additional operational changes are pending and the 2020 Census design may be modified further before the design of the 2018 End-to-End Census Test is finalized.

Impact: Many of the changes to the 2020 Census baselined design involve operations switching from automated processing to paper and manual processing. The increase in paper and manual processing, and the decrease in automated processing, will lead to increased costs for the 2020 Census Program.

6. The program issue titled “Delays in Provisioning Infrastructure for the 2018 E2E CT” was opened.

Description: Contract award is dependent on the completion of the Supply Chain Risk Assessment (SCRA). SCRA's are not being approved in a timely manner by the Department of Commerce, resulting in additional procurement time. This has led to infrastructure, components, etc. being rejected, resulting in shortened test times for the System of Systems in the 2018 End-to-End Census Test (2018 E2E CT). This has also resulted in a delay to provisioning infrastructure for Release C.

Impact: This situation impacts the Release Management schedule in addition to shortening the development and testing timeframes.

# Appendix

## Appendix A: 2020 Census Operations and Purpose

Operations	Purpose
<b>Census/Survey Engineering</b>	
<b>Systems Engineering and Integration</b>	The Systems Engineering and Integration operation (SEI) manages the delivery of a system of systems that meets 2020 Census Program business and capability requirements.
<b>Security, Privacy, and Confidentiality</b>	The Security, Privacy, and Confidentiality (SPC) operation ensures that all operations and systems used in the 2020 Census adhere to the following policies and regulations: <ul style="list-style-type: none"> <li>• Appropriate systems and data security.</li> <li>• Respondent and employee privacy and confidentiality.</li> </ul>
<b>Content and Forms Design</b>	The Content and Forms Design (CFD) operation performs the following activities: <ul style="list-style-type: none"> <li>• Identify and finalize content and design of questionnaires and associated nonquestionnaire materials such as letters, postcards, brochures, envelopes, flashcards, and field materials.</li> <li>• Ensure consistency across data collection modes and operations, including (but not limited to) questionnaire content, help text, mailing materials, and field materials.</li> <li>• Provide the optimal design and content of the questionnaires to encourage high response rates.</li> </ul>
<b>Language Services</b>	The Language Services (LNG) operation performs the following activities: <ul style="list-style-type: none"> <li>• Assess and support language needs of non-English speaking populations.</li> <li>• Determine the number of non-English languages and level of support for the 2020 Census.</li> <li>• Optimize the non-English content of questionnaires and associated nonquestionnaire materials across data collection modes and operations.</li> <li>• Ensure cultural relevancy and meaningful translation of 2020 Census questionnaires and associated nonquestionnaire materials.</li> </ul>
<b>Frame</b>	
<b>Geographic Programs</b>	The Geographic Programs (GEOP) operation provides the geographic foundation in support of the 2020 Census data collection and tabulation activities within the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System. The MAF/TIGER System (software applications and databases) serves as the national repository for all of the spatial, geographic, and residential address data needed for census and survey data collection, data tabulation, data dissemination, geocoding services, and map production. Components of this operation include: <ul style="list-style-type: none"> <li>• Geographic Delineations.</li> <li>• Geographic Partnership Programs.</li> <li>• Geographic Data Processing.</li> </ul>
<b>Local Update of Census Addresses</b>	The Local Update of Census Addresses (LUCA) operation provides an opportunity for tribal, federal, state, and local governments to review and improve the address lists and maps used to conduct the 2020 Census. This operation is required by the Census Address List Improvement Act of 1994 (Public Law (P.L.) 103-430).
<b>Address Canvassing</b>	The Address Canvassing (ADC) operation serves two purposes: <ul style="list-style-type: none"> <li>• Deliver a complete and accurate address list and spatial database for enumeration.</li> <li>• Determine the type and address characteristics for each living quarter.</li> </ul>

Operations	Purpose
<b>Response Data</b>	
<b>Forms Printing and Distribution</b>	<p>The Forms Printing and Distribution (FPD) operation prints and distributes the following paper forms to support the 2020 Census mailing strategy and enumeration of the population:</p> <ul style="list-style-type: none"> <li>• Internet invitation letters.</li> <li>• Reminder cards or letters or both.</li> <li>• Questionnaire mailing packages.</li> <li>• Materials for other special operations, as required.</li> </ul> <p><i>Other materials required to support field operations are handled in the Decennial Logistics Management or Field Infrastructure operations.</i></p>
<b>Paper Data Capture</b>	<p>The Paper Data Capture (PDC) operation captures and converts data from 2020 Census paper questionnaires. This operation includes:</p> <ul style="list-style-type: none"> <li>• Mail receipt.</li> <li>• Document preparation.</li> <li>• Scanning.</li> <li>• Optical Character Recognition.</li> <li>• Optical Mark Recognition.</li> <li>• Key From Image.</li> <li>• Editing and checkout.</li> </ul>
<b>Integrated Partnership and Communications</b>	<p>The Integrated Partnership and Communications (IPC) operation communicates the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and Puerto Rico to:</p> <ul style="list-style-type: none"> <li>• Support Field recruitment efforts for a diverse, qualified Census workforce.</li> <li>• Engage and motivate people to self-respond, preferably via the Internet.</li> <li>• Raise and keep awareness high throughout the entire 2020 Census to encourage response.</li> <li>• Effectively support dissemination of Census data to stakeholders and the public.</li> </ul>
<b>Internet Self-Response</b>	<p>The Internet Self-Response (ISR) operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Maximize online response to the 2020 Census via contact strategies and improved access for respondents.</li> <li>• Collect response data via the Internet to reduce paper and NRFU.</li> <li>▪ Provide Paper Questionnaires to respondents who request paper materials only.</li> </ul>
<b>Non-ID Processing</b>	<p>The Non-ID Processing (NID) operation is focused on making it easy for people to respond anytime, anywhere to increase self-response rates. The operation accomplishes this by:</p> <ul style="list-style-type: none"> <li>• Providing response options that do not require a unique Census ID.</li> <li>• Maximizing real-time matching of non-ID respondent addresses to the Census living quarters address inventory.</li> <li>• Accurately assigning nonmatching addresses to census blocks.</li> <li>• Conducting validation of all non-ID responses.</li> </ul>
<b>Update Enumerate</b>	<p>The Update Enumerate (UE) operation is designated to occur in geographic areas where the Census Bureau has identified unique challenges. UE combines listing methodologies with enumeration methodologies. The primary functions of UE include:</p> <ul style="list-style-type: none"> <li>• Verifying and updating the address list and feature data.</li> <li>• Determining the type and address characteristics for each living quarter.</li> <li>• Enumerating respondents at housing units within the UE geographic areas.</li> </ul>

Operations	Purpose
<b>Update Leave</b>	<p>The Update Leave (UL) operation serves two purposes:</p> <ul style="list-style-type: none"> <li>• Verify and update the address list and feature data.</li> <li>• Link and deliver a choice questionnaire package to each housing unit in the designated area for the household to self respond.</li> </ul>
<b>Group Quarters</b>	<p>The 2020 Census Group Quarters (GQ) Operation will:</p> <ul style="list-style-type: none"> <li>• Enumerate people living or staying in group quarters.</li> <li>• Provide an opportunity for people experiencing homelessness and receiving service at a service-based location, such as a soup kitchen, to be counted in the Census.</li> </ul>
<b>Enumeration at Transitory Locations</b>	<p>The Enumeration at Transitory Locations (ETL) operation enumerates individuals in occupied units at transitory locations who do not have a Usual Home Elsewhere. Transitory locations include recreational vehicle parks, campgrounds, racetracks, circuses, carnivals, marinas, hotels, and motels.</p>
<b>Census Questionnaire Assistance</b>	<p>The Census Questionnaire Assistance (CQA) operation has two primary functions:</p> <ul style="list-style-type: none"> <li>• Provide questionnaire assistance for respondents by answering questions about specific items on the Census form or other frequently asked questions about the Census;</li> <li>• Tier 1: Provide telephone assistance via an Interactive Voice Response (IVR).</li> <li>• Tier 2: Provide real-time assistance over the telephone or web chat. via CQA agents.</li> <li>• Provide an option for respondents to complete a Census interview over the telephone.</li> </ul>
<b>Nonresponse Followup</b>	<p>The Nonresponse Followup (NRFU) Operation serves two purposes:</p> <ul style="list-style-type: none"> <li>• Determines housing unit status for nonresponding addresses that do not self-respond to the 2020 Census.</li> <li>• Enumerates households that are determined to have a housing unit status of occupied.</li> </ul>
<b>Response Processing</b>	<p>The Response Processing Operation (RPO) supports the three major components of the 2020 Census: predata collection activities, data collection activities, and post data collection activities.</p> <p>Specifically, the operation supports the following:</p> <ul style="list-style-type: none"> <li>• Create and distribute the initial 2020 Census enumeration universe of living quarters.</li> <li>• Assign the specific enumeration strategy for each living quarter based on case status and associated paradata.</li> <li>• Create and distribute workload files required for enumeration operations.</li> <li>• Track case enumeration status.</li> <li>• Run post data collection processing actions in preparation for producing the final 2020 Census results.</li> <li>• Check for invalid or potential fraudulent returns.</li> </ul>
<b>Federally Affiliated Count Overseas</b>	<p>The Federally Affiliated Count Overseas (FACO) operation obtains counts by home state of U.S. military and federal civilian employees stationed or deployed overseas and their dependents living with them.</p>
<b>Publish Data</b>	
<b>Data Products and Dissemination</b>	<p>The Data Products and Dissemination (DPD) operation performs three primary functions:</p> <ul style="list-style-type: none"> <li>• Prepare and deliver the 2020 Census apportionment data for the President of the United States to provide to Congress by December 31, 2020.</li> <li>• Tabulate 2020 Census data products for use by the states for redistricting.</li> <li>• Tabulate and disseminate 2020 Census data for use by the public.</li> </ul>

Operations	Purpose
<b>Redistricting Data Program</b>	The purpose of the Redistricting Data Program (RDP) is to provide to each state the legally required P.L. 94-171 redistricting data tabulations by the mandated deadline of 1 year from Census. Day: April 1, 2021.
<b>Count Review</b>	The Count Review (CRO) operation enhances the accuracy of the 2020 Census through remediating potential gaps in coverage by: <ul style="list-style-type: none"> <li>• Implementing an efficient and equitable process to identify missing housing units.</li> <li>• Identifying and correcting missing or geographically misallocated large group quarters and their population.</li> <li>• Positioning remaining count issues for a smooth transition to the CQR operation.</li> </ul>
<b>Count Question Resolution</b>	The Count Question Resolution (CQR) operation provides a mechanism for governmental units to challenge their official 2020 Census results.
<b>Archiving</b>	The Archiving (ARC) operation performs the following functions: <ul style="list-style-type: none"> <li>• Coordinates storage of the materials and data and provides records deemed permanent, including files containing the individual responses to the 2020 Census, to National Archives and Records Administration (NARA).</li> <li>• Provides similar files to the NPC to use as source materials to conduct the Age Search Service.</li> </ul>
<b>Other Censuses</b>	
<b>Island Areas Censuses</b>	The purpose of the Island Areas Censuses operation is to enumerate all residents of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands; process and tabulate the collected data; and disseminate data products to the public.
<b>Test and Evaluation</b>	
<b>Coverage Measurement Design and Estimation</b>	The Coverage Measurement Design and Estimation (CMDE) operation develops the survey design and sample for the postenumeration survey for the 2020 Census. It also produces estimates of census coverage based on a postenumeration survey.
<b>Coverage Measurement Matching</b>	The Coverage Measurement Matching (CMM) operation identifies matches and nonmatches between the 2020 Census and the Coverage Measurement Survey, for both housing units and people, including computer and clerical components.
<b>Coverage Measurement Field Operations</b>	The Coverage Measurement Field Operations (CMFO) collects person and housing unit information (independent from 2020 Census operations) for the sample of Coverage Measurement Survey housing units. Coverage Measurement (CM) collects the same data as the 2020 Census for both housing units and persons. Additional information is collected by CM to help us understand census coverage and to detect erroneous enumerations.
<b>Evaluations and Experiments</b>	Evaluations and Experiments (EAE) document how well the 2020 Census was conducted; evaluations analyze, interpret, and synthesize the effectiveness of census components and their impact on data quality or coverage or both. Experiments identify potential designs of early 2030 Census life-cycle research and testing; experiments are quantitative or qualitative studies that must occur during a decennial census in order to have meaningful results to inform planning of future decennial censuses. In general, experiments involve response comparisons between tests, new or modified methods, or procedures against 2020 Census production methods or procedures.  The EAE operation performs the following functions: <ul style="list-style-type: none"> <li>• Measures success of critical 2020 Census operations and processes.</li> </ul>

Operations	Purpose
	<ul style="list-style-type: none"> <li>• Formulates a 2020 Census experimental program that will further refine 2030 Census operational design options.</li> <li>• Contributes to the formulation of the 2030 Census Research and Testing phase objectives.</li> <li>• Develops a transition plan and appropriate organizational structures to establish 2030 Census life cycle planning.</li> <li>• Initiates other early planning activities for the 2030 Census, including the monitoring of policy concerns and technological, societal, and public cooperation trends.</li> <li>• Produces an independent assessment of coverage via Demographic Analysis.</li> </ul>
Infrastructure	
<b>Decennial Service Center</b>	The Decennial Service Center (DSC) will support 2020 Census field operations and handle all service requests initiated by field staff.
<b>Recruiting, Training, and Onboarding</b>	<p>The Field Infrastructure (FLDI) operation performs the following functions:</p> <ul style="list-style-type: none"> <li>• Coordinates space acquisition for, and lease management of, the RCC and Area Census Offices.</li> <li>• Provides the administrative infrastructure for data collection covering the 50 states, the District of Columbia, and Puerto Rico including: <ul style="list-style-type: none"> <li>◦ Recruiting.</li> <li>◦ Hiring and onboarding.</li> <li>◦ Personnel and payroll administration.</li> <li>◦ Training.</li> <li>◦ Partnership support.</li> <li>◦ Management and supervision.</li> <li>◦ Clerical support.</li> <li>◦ Materials supply.</li> <li>◦ Printing and plotting.</li> </ul> </li> </ul>
<b>Decennial Logistics Management</b>	The Decennial Logistics Management (DLM) will provide logistics management services including procuring warehouse space, warehousing, inventory management, kit assembly, deployment of materials, and receiving and excessing materials.
<b>IT Infrastructure</b>	<p>The purpose of the IT Infrastructure (ITIN) operation is to provide the IT-related infrastructure support to the 2020 Census, including:</p> <ul style="list-style-type: none"> <li>• Enterprise systems and applications.</li> <li>• Decennial-specific systems, applications, and interfaces.</li> <li>• Field IT infrastructure (RCC, field office, and paper data capture center).</li> <li>• Mobile computing.</li> <li>• Cloud computing.</li> </ul>
Program Management	
<b>Program Management</b>	The Program Management (PM) operation defines and implements program management policies, processes, and the control functions for planning and implementing the 2020 Census in order to ensure an efficient and well-managed program.

## Appendix B: Detailed Operational Plan Release Schedule

	Detailed Operational Plan	DOP Release Dates via Operational Plan v1.0	Revised release date v2.0	Revised schedule as of June 2017	
1	(8) Address Canvassing - (ADC)	Sept 2015		Dec 2017	
2	(7) Local Update of Census Addresses (LUCA)	Sept 2016	Sept 2016		
3	(4) Content and Forms Design (CFD)				
4	(5) Language Services (LNG)				
5	(12) Internet Self-Response (ISR)			Dec 2016	June 2017
6	(13) Non-ID Processing (NID)			Sept 2016	March 2018
7	(10) Paper Data Capture (PDC)			Dec 2016	March 2017, Dec 2018 rev
8	(22) Redistricting Data Program (RDP)				March 2018
9	(11) Integrated Partnership and Communications (IPC)			Sept 2016	Dec 2018
10	(17) Census Questionnaire Assistance (CQA)				Dec 2017
11	(19) Response Processing (RPD)			Mar 2017	June 2018
12	(6) Geographic Programs Operation (GEOP) -- Geographic Delineations Component (GEOP/GD)			No date released in 2020 Ops Plan	Sept 2016
13	(6) Geographic Programs Operation (GEOP) -- Geographic Partnerships Component (GEOP/GP)				
14	(6) Geographic Programs Operation (GEOP) -- Geographic Data Processing Component (GEOP/GDP)				
15	(34) IT Infrastructure (ITIN)		Mar 2017	April 2017	
16	(3) Security, Privacy and Confidentiality (SPC)				
17	(18) Nonresponse Followup (NRFU)		Dec 2016	June 2017	
18	(9) Forms Printing and Distribution (FPD)		Mar 2017		
19	(35) Update Leave (UL)	Operation added in FY17		Sept 2017	
20	(14) Update Enumerate (UE)	Sept 2017	Mar 2017	Sept 2017	
21	(15) Group Quarters (GQ)	Sept 2017	Jun 2017	Sept 2017	
22	(32) Field Infrastructure (FID)	Sept 2016		Dec 2017	
23	(33) Decennial Logistics Management (DLM)				
24	(31) Decennial Service Center (DSC)	Jan 2017			
25	(21) Data Products and Dissemination (DPD)			Oct 2017	
26	(30) Evaluations and Experiments (EAE)		Sept 2018		
27	(27) Coverage Measurement Design & Estimation (CMDE)	Sept 2017	Sept 2017	Sept 2018	
28	(28) Coverage Measurement Matching (CMM)				
29	(29) Coverage Measurement Field Operations (CMFO)				
30	(20) Federally Affiliated Americans Count Overseas (FAA)				
31	(16) Enumeration at Transitory Locations (ETL)				
32	(25) Archiving (ARC)	Sept 2018	Sept 2017	Sept 2018	
33	(23) Count Review (CRO)	Sept 2017	Sept 2018		
34	(26) Island Areas Censuses (IA)				
35	(24) Count Question Resolution (CQR)		Sept 2018		
36	(1) Program Management (PM)				
37	(2) Systems Engineering & Integration (SEI)				

- FY 16 release
- FY 17 release
- FY 18 release
- FY 18 re-release
- FY 19 re-release

**Note:** All reports are released via the 2020 Census Memorandum Series. This schedule was released September 28, 2016. Work on many Detailed Operational Plans was delayed so existing staff could focus on higher priority 2017 Census Test preparations and rework artifacts to account for scope changes.

## **Appendix C: Descriptions of Tests That Have Already Taken Place**

### **Address Canvassing Test**

The Address Canvassing Test conducted in 2016 focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas.

The Address Canvassing Test included In-Office Address Canvassing and In-Field Address Canvassing. The In-Office Address Canvassing included the Interactive Review and Active Block Resolution activities. The In-Field Address Canvassing activity is full block listing of all living quarters. Both In-Office Address Canvassing and In-Field Address Canvassing are based on the same input data (i.e., Master Address File (MAF) and Topologically Integrated Geographic Encoding and Referencing (TIGER)) and will be completed in time to compare the results from both activities with each other.

This Test occurred in two sites, Buncombe County, North Carolina, and St. Louis, Missouri. The sites include a variety of living quarters and address types (i.e., city-style addresses, non-city-style addresses, and location descriptions). Census field representatives were hired to conduct In-Field Address Canvassing. All management and oversight activities occurred out of the regional offices.

### **2016 Census Test**

The 2016 Census Test was an operational study of both self-response and nonresponse follow-up procedures. The self-response objectives included testing the provision of language support to limited English proficient populations, testing the ability to reach demographically diverse populations, and refining Real-Time Non-ID Processing (RTNP) methods.

The nonresponse follow-up objectives included the following strategies: the use of administrative records and third-party data to reduce cost while maintaining quality; reengineering field operations using models to reduce travel time and determine the best time for the enumerator to contact the respondent; and streamlining the staffing and supervisory structure.

Systems testing included the use of a Census Bureau server-based infrastructure<sup>1</sup> to support Self-Response and Non-ID Processing (for those responses where the Census ID is not used), and to measure the systems' abilities to manage a significant number of concurrent users. Also, this Test utilized Census Enterprise Data Collection and Processing (CEDCaP) systems (Control and Response Data System and the Multimode Operational Control System) for the first time in support of response processing operations. Data collection for the 2016 Census Test began in March 2016 and continued through June 2016 in Los Angeles County, California, and Harris County, Texas.

## Appendix D: Acronyms

ABR.....	Active Block Resolution
ACO .....	Area Census Offices
ACS .....	American Community Survey
ADSD .....	Applications Development and Services Division
AMO .....	Area Manager of Operations
AMSD .....	Administrative and Management Systems Division
ARM.....	Administrative Records Modeling
ATAC.....	Automated Tracking and Control
ATP .....	Architecture Transition Plan
ATT .....	Authority To Test
AVI.....	[Telephone: robocall]
AVT .....	Address Validation Test
AWS.....	Amazon Web Services
BAS .....	Boundary and Annexation Survey
BBSP .....	Block Boundary Suggestion Project
BCU.....	Basic Collection Unit
BYOD .....	Bring Your Own Device [The use of employee-owned equipment/services.]
C-SHaRPS .....	Census Schedule A Human Resources Payroll System
CASS.....	Coding Accuracy Support System
CAT .....	Customer Acceptance Testing
CATI .....	<i>Computer Assisted Telephone Interviewing</i>
CBAMS.....	Census Barriers, Attitudes, and Motivators Survey
CCs.....	Contact Centers
CDR.....	Critical Design Review
CEDCaP .....	Census Enterprise Data Collection and Processing
CES.....	Center for Economic Studies
CFD .....	Content and Forms Design
CHEC .....	Census Hiring and Employment Check
CM .....	Coverage Measurement
CMS .....	Center for Medicare and Medicaid Studies
COMPASS .....	Census Operations Mobile Platform for Adaptive Services and Solutions
CQA .....	Census Questionnaire Assistance
CRM.....	<i>Customer Relationship Management</i>
CSAC .....	Census Scientific Advisory Committee
CSM .....	Center for Survey Measurement
DAPPS .....	Decennial Applicant, Personnel, and Payroll System
DCBO .....	Decennial Communications and Budget Office
DCMD .....	Decennial Census Management Division
dDaaS .....	decennial Device as a Service
DDSSO .....	Decennial Directorate Support Services Office
DID.....	Design Intent Drawings
DITD.....	Decennial Information Technology Division
DOP .....	Detailed Operational Plan
DPMO .....	Decennial Program Management Office
DROM.....	Decennial Research Objectives and Methods Group
DSSD .....	Decennial Statistical Studies Division
DTO .....	Decennial Translation Office
EAE .....	Evaluations and Experiments
ECaSE.....	Enterprise Censuses and Surveys Enabling
ECaSE-Enum.....	Enterprise Censuses and Surveys Enabling-Enumeration
ECaSE-ISR.....	Enterprise Censuses and Surveys Enabling-Internet Self-Response
ECaSE-OCS.....	Enterprise Censuses and Surveys Enabling-Operational Control System
EFU .....	Evaluation Followup
ENUM .....	Enumerators in the Field
ENUMPREP .....	Enumeration Preparation

eResponse IT.....Electronic Response Data Independent Test  
ES..... English/Spanish, otherwise known as Bilingual  
ESB ..... Enterprise Service Bus  
FAQ..... *Frequently Asked Questions*  
FMO..... Field Manager of Operations  
FY..... *Fiscal Year*  
FSCPE..... Federal-State Cooperative for Population Estimates  
GAADS..... Geographic Area Analysis and Delineation System  
GAO ..... Government Accountability Office  
GEO ..... Geography Division  
GPO ..... *Government Publishing Office*  
GPMO.....Government Program Management Office  
GPSD..... Geographic Partnership Support Desk  
GQ ..... Group Quarters  
GRF-C..... Geographic Reference File-Codes  
GRF-N ..... Geographic Reference File-Names  
GUPS..... Geographic Update Partnership Software  
HU ..... Housing Unit  
ICADE..... Integrated Computer Assisted Data Entry System  
ICC ..... Integrated Communications Contract  
IIP ..... Integration and Implementation Plan  
IMS ..... Integrated Master Schedule  
IPC ..... Integrated Partnership and Communications  
IPT ..... Integrated Project Team  
IR ..... Interactive Review  
IRS ..... *Internal Revenue Service*  
ISR ..... Internet Self-Response  
IT ..... *Information Technology*  
JASON..... [An independent scientific advisory group that provides consulting services to the federal government on matters of science and technology.]  
LCO ..... Local Census Office  
LiMA ..... Listing and Mapping Application  
LMS ..... Learning Management System  
LSO ..... Local Supervisor of Operations  
LUCA ..... Local Update of Census Addresses  
MAF ..... Master Address File  
MAF/TIGER..... Master Address File/Topologically Integrated Geographic Encoding and Referencing  
MAFUF ..... Master Address File Update File  
MCM..... Mobile Case Management  
MDM ..... Mobile Device Management  
MES ..... Mission Enabling Services  
MMVT..... MAF Model Validation Test  
MOCS..... Multimode Operational Control System  
MOJO ..... [Term for Census Operational Control System for Reengineered Field Operations]  
MTDB..... Master Address File/Topologically Integrated Geographic Encoding and Referencing system database  
NAC ..... National Advisory Committee  
NAS ..... *National Academy of Sciences*  
NCT ..... National Content Test  
“Notify Me” ..... [Census Bureau’s Preregistration Tool]  
NPC..... National Processing Center  
NRFU ..... Nonresponse Followup  
NTC..... Note for Correspondents  
OCS..... Operational Control System  
OIG ..... *Office of the Inspector General*  
OIS..... *Office of Information Security*

**OMB** ..... *Office of Management and Budget*  
**OOS** ..... *Office Operations Supervisor*  
**OCR**.....*Optical Character Recognition*  
**ORR** ..... *Operational Readiness Review*  
**ORT**.....*Operational Readiness Testing*  
**OSR** ..... *Optimizing Self-Response*  
**PCS** ..... *Production Control System*  
**PDC**..... *Paper Data Capture*  
**PES**..... *Post Enumeration Survey*  
**PM** ..... *Program Management*  
**PMGB** ..... *Portfolio Management Governing Board*  
**PMR**..... *Program Management Review*  
**Primus** ..... [*Census Bureau’s Internet Data Collection System*]  
**PRR** ..... *Production Readiness Review\**  
**PSAP** ..... *Participant Statistical Areas Program*  
**PVSed** ..... [*To make data private and secured*]  
**PWS**.....*Performance Work Statement*  
**PXP** ..... *Partnership Experience Portal*  
**QC**..... *Quality Control*  
**R&T** ..... *Research and Testing*  
**RA**..... *Recruiting Assistant*  
**RCC** ..... *Regional Census Center*  
**RDP**..... *Redistricting Data Program*  
**RFI** ..... *Request for Information*  
**RFP** ..... *Request for Proposal*  
**RO**..... *Regional Office*  
**ROckIT** ..... *Reorganized Census with Integrated Technology [Reengineered Field Operations]*  
**RRB** ..... *Risk Review Board*  
**RTNP**..... *Real-Time Non-ID Processing*  
**RTOCS** ..... *Research and Testing Operational Control System*  
**SBE** ..... *Service Based Enumeration*  
**SDLC** ..... *Systems Development Life Cycle*  
**SE**..... *System Engineering*  
**SE&I** ..... *Systems Engineering and Integration*  
**SIMEX** ..... *Human in the Loop Simulation*  
**SLC**..... *Survey Life Cycle*  
**SPC** ..... *Security, Privacy, and Confidentiality*  
**SRR** ..... *Systems Requirement Review*  
**TEA** ..... *Type of Enumeration Area*  
**TEMP** ..... *Test and Evaluation Management Plan*  
**TI** ..... *Technical Integrator*  
**TIGER** ..... *Topologically Integrated Geographic Encoding and Referencing*  
**TQA** ..... *Telephone Questionnaire Assistance*  
**TRR** ..... *Test Readiness Review*  
**UAA** ..... *Undeliverable As Addressed*  
**UAT**..... *User Acceptance Test*  
**UE**..... *Update Enumerate*  
**UHE**..... *Usual Home Elsewhere*  
**USPS** ..... *United States Postal Service*

\*This is a review to assess program-level test results to ensure systems are ready for operational testing. A PRR is held for each release and typically occurs 2-3 weeks prior to the release’s Operational Readiness Review. If key stakeholders agree that any outstanding defects will not negatively impact the goals/objectives of the field test and the Operational Readiness Testing environment is operational, then systems are ready for production and to support Operational Readiness Testing.

UT ..... Users Test  
*UTS ..... Unified Tracking System*  
*VTD..... Voting Districts*  
*WG ..... Working Group*  
WLM ..... Workload Management  
*Y&R ..... Young & Rubicam*

**Note: Nonitalicized acronyms are those that are used mainly at U.S. Census Bureau whereas italicized acronyms are widely employed elsewhere.**