

2020 Census

September 2017

Monthly Status Report

All information in this report is as of September 30, 2017
unless otherwise stated in the title of the page.

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Key Program Updates

In May, Secretary Ross directed the Department of Commerce (DOC) Office of Acquisition Management (OAM) to work with the Census Bureau to conduct an evaluation of system requirements and 2018 End-to-End Census Test Readiness. He also directed OAM to evaluate the Census Bureau's updated lifecycle cost estimate (LCCE) for the 2020 Decennial Census Program and to produce an Independent Cost Estimate (ICE) for the program.

To address corrective actions with regard to the evaluation of system requirements and 2018 Census Test Readiness, the OAM estimated increased Census Bureau and contractor funding needs to provide support to Leadership for system- and program-level planning, tracking, and reporting for FY 18 through FY 20, with decreases in this support in FY 21. With regard to the LCCE, the OAM developed an Independent Cost Estimate (ICE) for the 2020 Census. In early August 2017, the Census Bureau and OAM collaborated on a reconciliation between the ICE and the Census Bureau's Program Office Estimate (POE). In late August 2017, Secretary Ross held internal briefings on the 2020 Census lifecycle estimate with senior leadership with DOC and the Census Bureau. In September 2017, DOC delivered the LCCE for the Decennial Census Program to Congressional appropriators and oversight bodies. Currently, the Census Bureau is finalizing the basis of estimate (BOE) and associated documentation for the LCCE.

In September, the Census Bureau's Decennial Census Programs Directorate worked closely with the Commerce Department and the Office of Management and Budget to identify program requirements, magnitude, and prioritization for an adjustment to the FY 2018 budget reflecting the updated LCCE and to finalize a proposal for an anomaly to the Continuing Resolution (CR) that allows spending in the first quarter of FY 2018 at a rate that is higher than the standard "fixed rate" formula normally operative during a CR ensure that major 2020 Census contracts, including the Census Questionnaire Assistance and Technical Integrator contracts, remain on the critical path. The CR, which was enacted on September 8, 2017, included this anomaly..

All staff, training, infrastructure, systems, and applications were in place and functioned well as the Census Bureau conducted and completed Address Canvassing, the first major operation of the **2018 End-to-End Census Test** (see pp. 9-16). Production work in the field began on schedule August 28, 2017, and was completed on schedule by September 29, 2017. The Quality Control operation also began on time and is scheduled to be completed by October 6, 2017. The operation was conducted in three locations -- Beckley, West Virginia; Seattle, Washington; and Providence, Rhode Island. A number of observers from Census Bureau headquarters and regional offices, as well as from oversight groups (including the Government Accountability Office and the Office of the Inspector General), had the opportunity to travel to these sites to observe data collection in the field, area office operations, and speak with supervisory and regional managers.

Several successes to note so far: For the first time, the Listing and Mapping Application (LiMA) was integrated with the overall Operation Control System – Enterprise Censuses and Surveys Enabling (ECaSE) – that will be used in the 2020 Census. This was the first test of overall integration of decennial systems. Also for the first time, the Census Bureau used and integrated with other systems the planned 2020 Decennial Applicant, Personnel, and Payroll System

Key Program Updates Cont'd

(DAPPS) for capturing time and expenses of field staff. Another big success is the successful implementation of independent quality control component for address canvassing.

The Census Bureau also experienced some issues and challenges in the Test. Management reports from the formal reporting system were not accurate during the majority of the Address Canvassing operation. There was also the continuation of some issues with the assignment of field cases, as well as some unexpected connectivity issues in West Virginia. The Census Bureau had anticipated this for field work, and had designed the listing application to function even when not connected to a wireless network, but a number of listers had difficulty accessing the online training from home, and some listers experienced significant delays when trying to access assignments and imagery data, or upload completed work. Although the Census Bureau resolved these issues during the Test, it continues to explore them and expects many of them to be resolved through the use of its 2020 decennial Device as a Service (dDaaS) contract, which should help ensure connectivity to the best signal provider in any given area.

Other operations for the 2018 End-to-End Census Test, self-response and non-id processing, followed by personal visit interviewing of nonresponding addresses and Group Quarters data collection, will take place next spring and summer in the Providence, Rhode Island location. Based on the 2020 Census Integrated Master Schedule, through September 30, 2017, 53.2 percent of the activities in the 2018 End-to-End Census Test had been completed (see pp. 42-43).

For **2020 Census operations** (see pp. 20-37), the promotional outreach events continued for Local Update of Census Addresses (LUCA), the first major operation for the 2020 Census. A total of 608 promotional presentations have been completed as of September 30, 2017, and another 76 promotional events are scheduled in October and November 2017. The dates for these events can be found on the 2020 Census Local Update of Census Addresses (LUCA) Operation page: <https://www.census.gov/geo/partnerships/luca.html>. The printing and shipping of LUCA Invitation Reminder packages began on September 25, 2017, to tribal, state, and local governmental entities. As of September 30, 2017, the Census Bureau had received 9,081 responses from the 39,332 unique governments that are eligible to participate in the program. Of those, 4,828 (representing 79.7 million addresses nationwide) had signed up to participate in the LUCA Operation and 4,253 had declined. Governments typically decline due to insufficient staff, because another level of government is participating, or because they are too busy.

The 2020 Census Redistricting Data Program (RDP) sent invitations to participate in Phase 2, the Voting District Project, of the 2020 RDP to official liaisons in each state, and notifications of that action to legislative leadership as well. The design of the prototype 2020 Census P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test is circulating for clearance, and publication in the Federal Register for public comment, expected in October 2017.

Key Program Updates Cont'd

The 2020 Census In-Office Address Canvassing Interactive Review (IR) production continues, and is meeting the expected production goals. The clerks have reviewed 11,155,278 blocks during Interactive Review from the beginning of production in September 2015 through

September 30, 2017. They have completed 100 percent of the 11,155,486 total blocks nationally through the first pass in Interactive Review. 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 September 30, 2017, 75.2 percent of the blocks were classified as Passive, 18.1 percent were classified as Active, and 5.3 percent were classified as On-Hold. As of September 30, 2017, 159,881 blocks have been triggered for IR re-review.

The Census Enterprise Data Collection and Processing (CEDCaP) program (see pp. 39) provided the final version of their vision/scope documentation for release to the 2020 Census program and for 2020 Census Portfolio Management Governing Board approval. For Product Release 8 (2018 End-to-End Census Test), the program supported joint Decennial and CEDCaP Systems Requirement Review, and continued iterative development and testing for needed CEDCaP capabilities.

For the Census Bureau-United States Postal Service Partnership effort, development of core program management artifacts for the Census Bureau-United States Postal Service (USPS) partnership were completed, including an integrated project plan, common reporting process, risk register, and roles and responsibilities matrix on September 28, 2017. Both USPS and Census Bureau signatures on a Letter of Intent formalizing the partnership between the two organizations were also obtained, and a draft Interagency Agreement documenting the requirements, schedule, and cost information for the Postal Carriers as Enumerators Pilot was distributed for stakeholder review on September 20, 2017.

The Census Bureau released v. 1.0 of the 2020 Census Integrated Communications Plan to the National Advisory Committee and the Census Scientific Advisory Committee on September 27, 2017. The plan is also being shared with other stakeholders and with oversight. The Integrated Communications contractor (Team Y&R) held a paid media workshop from September 12 – 14, 2017, that included the contractor's partners and Census Bureau staff. The purpose of the workshop was to brainstorm the strategy that would be used for the paid media component of the advertising campaign. The draft 2020 Census Tribal Consultation with State-Recognized Tribes: Final Report completed Census Bureau clearance on September 29, 2017.

Key Program Updates Cont'd

Updates continue for the release of the next iteration of the 2020 Census Operational Plan (v. 3.0) at the October 27, 2017, Program Management Review. Of the Detailed Operational Plans also being prepared for each of the 35 2020 Census operations, 16 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. 40-41). On September 13, 2017, the Office of Inspector General (OIG) issued their final report from their audit of the 2020 Census In-Office Address Canvassing operation, and the Census Bureau is preparing its action plan in response to their two recommendations. On September 22, 2017, the Census Bureau provided the Government Accountability Office (GAO) with an action plan in response to the three recommendations in their final audit report on the same operation. The GAO initiated a new audit on the Census Bureau's 2020 Schedule, to answer two questions: 1) To what extent has the Census Bureau improved its use of best practices for scheduling key projects, and 2) To what extent have key decisions reflected in the Census Bureau's Integrated Master Schedule (IMS) been made on schedule. GAO currently has three 2020 Census-focused audits in progress, and the OIG has two.

The Census Bureau hosted a successful International Census Forum from September 5 – 8, 2017, to discuss plans and progress for the next round of censuses in various countries. Participants included representatives from Scotland, Ireland, Northern Ireland, England & Wales, Canada, New Zealand, and Australia.

Extensive updates and discussions about the 2020 Census took place at the meeting of the Census Scientific Advisory Committee on September 14 – 15, 2017.

Some other key program updates include:

2018 End-to-End Census Test

- Began recruiting for Peak Operations field staff (Providence, Rhode Island, Area Census Office) on September 5, 2017.
- Received Office of Management and Budget (OMB) (Paperwork Reduction Act) approval for the 2018 End-to-End Census Test Peak operations on September 15, 2017.

2018 End-to-End Census Test Cont'd

- Revised detailed performance (operational progress) report requirements based on technical review. Completed final design review with developers and Performance Measurement Branch staff on September 19, 2017.
- Agreed to the final scope, schedule, and budget for the Census Questionnaire Assistance (CQA) operation, allowing the program to finalize the 2018 End-to-End Census Test phase of the contract (option period 1).

Key Program Updates Cont'd

- The Government Publishing Office (GPO) has received and is reviewing bids from the solicitation to acquire the necessary printing and mailing services for the Test, with an option for extending through the 2020 Census. An award is planned for October 2017.
- 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.
- Began circulating a Federal Register Notice, on September 1, 2017, for comment on the 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 in the Test and for a proposed group quarters table were approved through the disclosure avoidance review process and are included as part of the design.
- Distributed draft Interagency Agreement documenting the requirements, schedule, and cost information for the Postal Carriers as Enumerators Pilot for stakeholder review on September 20, 2017.

2020 Census Operations

- Completed the 2020 System Requirements Review #3 (SRR#3) on September 28, 2017. In SRR#3, the Decennial Census Management Division (DCMD) presented the business requirements for 2020 core operations plus Local Update of Census Addresses (LUCA) and Geographic Programs.
- Participated in multiple working sessions with the Decennial Contracts Execution Office's (DCEO) Government Program Management Office (GPMO) and the Technical Integrator (TI) to continue to define requirements that support the needs of Paper Data Capture (PDC) for the 2020 Census.
- Continued detailed development of the 2020 Census Program Integrated Master Schedule with the Schedule Management Branch, organizing and implementing numerous lockup schedule sessions for operations and systems.
- Began work on the 2020 Address List Update program for Group Quarters and Transitory Locations on September 1, 2017.

Status of Major Tests

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, such as reporting in remote areas, 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)

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

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

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

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

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

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

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

Begin Recruiting for Peak Operations – August 31, 2017 (begun September 5, 2017)

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

Receive OMB (Paperwork Reduction Act) Approval for Peak Operations – September 12, 2017 (completed on September 15, 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 16, 2018 – July 31, 2018
Conduct Self-Response, Including Non-ID Processing – March 16, 2018 – July 31, 2018
Conduct Paper Data Capture – March 19, 2018 – August 31, 2018
Conduct GQ Enumeration – March 28, 2018 – June 8, 2018 (Including SBE)
Conduct Coverage Improvement – March 31, 2018 – July 31, 2018*
Census Day – April 1, 2018
Conduct Early Nonresponse Followup (NRFU) – April 3, 2018 – May 9, 2018**
Conduct GQ Enumeration QC – 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 Nonresponse Followup (NRFU) – May 9, 2018 – July 24, 2018
Conduct NRFU Reinterview – May 10, 2018 – July 31, 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
*Added as a new activity due to Coverage Improvement being formally added to the 2018 End-to-End Census Test schedule. The goals of Coverage Improvement (CI) are to resolve erroneous enumerations (that is, people counted in the wrong place or more than once) and omissions (people who were missed). CI will attempt to resolve coverage issues from Internet Self-Response, Census Questionnaire Assistance, Nonresponse Followup, and housing unit paper questionnaires.
**Decoupled as a separate activity. Will be combined with NRFU and start May 9, 2018.
***Adjusted finish date to reflect operation schedule.

Summary of Activities (Last 30 Days)

Address Canvassing

1. Completed Quality Control Lister training on September 1, 2017.
2. Began In-Field Address Canvassing Quality Control on September 5, 2017.
3. Presented the In-Office Address Canvassing Evaluation to the 2020 Census Portfolio Management Governing Board (PMGB) on September 6, 2017. It received contingent approval and is currently with Decennial Census Programs Directorate upper management for revision.
4. Completed In-Field Address Canvassing Production listing before the scheduled completion date of September 29, 2017.

Program Management

1. Received OMB (Paperwork Reduction Act) approval for the Peak Operations (February 2018 – July 2018) on September 15, 2017.
2. Finalized the Test Plan.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) cont'd

Systems Engineering and Integration

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.

Language Services

Completed expert review of the translated Frequently Asked Question (FAQ) and questionnaire content for Census Questionnaire Assistance (CQA), and completed translation of CQA content into all of the Test languages that CQA has phone lines to support: Spanish, Chinese, Vietnamese, Korean, Russian, Arabic, and Tagalog.

Recruiting, Training, and Onboarding

1. Began recruiting for Peak Operations field staff (Providence, Rhode Island, Area Census Office) on September 5, 2017. Recruiting for Peak Operations will continue through February 26, 2018. Recruiting and Assessment (R&A) went live for Peak Operations recruiting on September 5, 2017. The R&A is an online job application and assessment. (For Address Canvassing, paper applications were used.) Peak Operations for which field staff are being recruited include Group Quarters and Nonresponse Followup.
2. Conducted Address Canvassing training debriefing from September 26 – 28, 2017. The attendees were Census Bureau headquarters staff with a sample of Listers and Census Field Supervisors.

Geographic Programs

Uploaded the updated Census Field Management Areas to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System database on September 25, 2017. The delineation identifies the Census Field Management Areas, such as Census Field Manager 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.

Paper Data Capture (PDC)

1. Participated in a series of JAD sessions facilitated by Systems Engineering and Implementation to finalize Capability and Non-Functional Requirements.
2. Participated in multiple sessions to finalize the PDC Technical Directive (TD) 113. TD 113 is a follow-on to TD 103 which provides support to the PDC solution. TD 113 allows the work to continue into the first optional Period of Performance (PoP) of TD 103.
3. Refined TD 115, which will provide support to develop a “scaled-up” version of the Intelligent Mail® Barcode Postal Tracking System (IPTs) for the Test and the 2020 Census.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) cont'd

Internet Self-Response

1. Enterprise Censuses and Surveys Enabling-Internet Self-Response (ECaSE-ISR) continued development for the Internet Self-Response (ISR) application, Census Questionnaire Assistance-Internet Self-Response (CQA-ISR) application, and Coverage Improvement Application. Development on the ISR and CQA-ISR applications should be completed on schedule, provided project-level testing is conducted and completed. Schedules for Coverage Improvement Application development will need to be adjusted to account for change in requirements.
2. Continued documentation of data flow from the ISR application to the Census Data Lake (CDL). This will be used by ECaSE for the Interface Control Documentation (ICD). This activity is still on schedule.
3. Began project-level testing of ISR.

Update Leave (UL)

1. Presented the Update Leave Assessment Study Plan to the 2020 Census PMGB on September 20, 2017.
2. Closed the UL Listing Quality Control Design and Development risk from the Test Risk Register on September 12, 2017. The Quality Control (QC) functionality is no longer at risk for being developed on time, since the QC operation is now in production and the Listing and Mapping Application QC module was developed with full functionality.

Group Quarters (GQ)

1. Conducted internal Group Quarters operations walk-through to identify and address gaps for both the Advance Contact and the GQ Enumeration operations on September 5, 2017.
2. Conducted User Acceptance Testing for the Group Quarters Advance Contact Production Control System (September 6, 2017 – September 15, 2017).

Census Questionnaire Assistance (CQA)

1. Finalized scope, schedule, and budget for the CQA operation, allowing the program to finalize the Test phase of the contract (option period 1).
2. Completed the CQA Study Plan following approval from the Decennial Research Objectives and Methods (DROM) group.
3. Received proposed final system design documentation upon finishing and mapping solution requirements to capability requirements as a result of accepting the final scope of the Test. The final scope for the CQA operation was reduced to a minimal solution for 2018 due to budget constraints.
4. Completed and baselined the required 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

Nonresponse Followup (NRFU)

1. Held briefing with the 2020 Census PMGB on the Test NRFU Assessment Study Plan on September 6, 2017.
2. Submitted specifications for Field Enumeration of Fraud Detection Recollect cases to the ECaSE-Enumeration application.
3. Participated in a series of JAD sessions facilitated by Systems Engineering and Implementation to finalize Capability and Non-Functional Requirements.
4. Worked with the Decennial Architecture & Requirements Team (DART) to submit change requests related to the JAD sessions.

Non-ID Processing

Revised detailed performance (operational progress) report requirements based on technical review. Completed final design review with developers and Performance Measurement Branch staff on September 19, 2017.

Coverage Improvement (CI)

1. Presented proposed plans for Coverage Improvement in the Test to the DROM working group on September 21, 2017.
2. Developed specifications for prequalification screens for the Coverage Improvement application/instrument on September 21, 2017.

Redistricting Data Program

Began circulating a Federal Register Notice on the draft design of the prototype P.L. 94-171 Redistricting Data File to be produced from the Test for internal review. Revisions to the file structure to account for the use of a combined race and ethnicity question in the Test and for a proposed group quarters table were approved through the disclosure avoidance review process and are included as part of the design. The public will have 60 days to comment on the Notice once it is published in the Federal Register.

Data Products and Dissemination

Began development of scope for 2018 Systems Interface testing for the apportionment calculation (this will be a simulation using 2010 data).

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

Supported joint Decennial and CEDCaP Systems Requirement Review. Continued iterative development and testing for CEDCaP Capabilities needed for this Test.

Look Ahead (Next 60 Days)

Address Canvassing

Complete In-Field Address Canvassing quality control listing on October 6, 2017.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) cont'd

Program Management

Approve the Test Plan.

Systems Engineering and Integration

1. Conduct the Training Release 2 Test Readiness Review on October 11, 2017.
2. Conduct the first of two TRRs for Release C on October 11, 2017, and the second on November 17, 2017.

Security, Privacy, and Confidentiality

Work with Office of Information Security (OIS) to develop a schedule for systems undergoing an ATO.

Content and Forms Design

1. Review and approve final print files.
2. Participate in project level testing of questionnaire content.

Language Services

1. Participate in project-level testing of non-English questionnaire content.
2. Begin project-level testing of translations of the Internet Self-Response instrument, Census Questionnaire Assistance instrument, and Nonresponse Followup field enumeration instrument on October 9, 2017.

Recruiting, Training, and Onboarding

Award Third-Party Vendor (3PV) Fingerprinting Vendor Contract in early October 2017.

IT Infrastructure

1. Conduct cloud ATO activities for services, processes, and tools required for Release C (Self-Response).
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 the process of obtaining IT support requirements for the Nonresponse Followup (NRFU) operation. The Decennial Service Center will continue to obtain NRFU IT requirements for enhancing the Decennial Information Technology Service Management (ITSM) system and updating training materials. The Decennial ITSM system and training materials will be used by IT staff located in the Area Census Offices, Regional Census Centers, and Census Bureau headquarters during NRFU.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) cont'd

Forms Printing and Distribution

Government Publishing Office (GPO) award of contract to acquire the necessary printing and mailing services to support self-response for the Test, with an option for extending through the 2020 Census, planned for October 2017.

Paper Data Capture

1. Commence work to develop and incorporate a scaled-up version of the IPTS. Support the integration required to ensure enterprise Systems Development Life Cycle (SDLC), ATO and TRR 2 deadlines and requirements are met.
2. Support the National Processing Center (NPC) in any build-out necessary to ensure readiness to conduct Paper Data Capture operations

Internet Self-Response

1. Complete project-level testing by Test Readiness Review for Release C on November 17, 2017.
2. Work with ECaSE development team to complete and finalize documentation of data flow from Internet Self-Response applications by November 17, 2017.
3. Submit 2018 Study Plan for DROM approval.

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 ECaSE-OCS Product Owner and development team.
3. Update the Update Leave Assessment Study Plan based on comments from the 2020 Census PMGB.
4. Submit a change request to update the baselined capability requirements and business process model. (Based on the current review of the change request submitted in July 2017, for those requirements that need rewording, are missing, or are no longer needed, the Update Leave team will make the appropriate changes and submit a change request.)

Group Quarters

Deliver Group Quarters Advance Contact and Enumeration Study Plans to the DROM group.

Census Questionnaire Assistance (CQA)

1. Deliver key documents required for the Release C Test Readiness Review (TRR) Exit Criteria, as it relates to CQA contractor deliverables.
2. Update the Integrated Master Schedule to include all final interfaces and external dependencies for CQA. Awaiting the completion of a global change request approval to see these implemented into the baseline schedule.
3. Present the proposed final CQA Study Plan to the 2020 Census PMGB for a final approval.
4. Complete full functionality of the CQA system build for October 15, 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 Enabling-Survey Operational Control System (ECaSE-SOCS) and Enterprise Censuses and Surveys Enabling-Field Operational Control System (ECaSE-FOCS) for NRFU operations.
2. Participate in User Acceptance Testing (UAT) of ECaSE-Enumeration starting on October 25, 2017.
3. Submit IT support requirements to the Decennial Service Center (DSC) operation for the Nonresponse Followup operation.

Non-ID Processing

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

Coverage Improvement

Conduct project-level testing of Coverage Improvement-Internet Self-Response (ISR) application.

United States Postal Service (USPS) Coordination Team

Finalize Interface Control Document and Interagency Agreement for automated mail tracing.

Data Products and Dissemination

Finalize Census Public Access Security System (CPASS) log-in requirements for embargo feature and provide to Telecommunications Office for data dissemination during the Test. The CPASS system provides the means for 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.

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

Deliver capabilities for Training Release 2 (Field Enumeration) on October 11, 2017. Systems in this release include ECaSE-FOCS, ECaSE-Enum, LiMA/MCM (Listing and Mapping Application/Mobile Case Management) and SOA (Service Oriented Architecture).

The Evaluations and Experiments team:

The DROM working group will review five 2018 End-to-End Census Test study plans.

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.

Status of Current Activities

Analysis reports are being prepared. Once complete, the reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

Reports Under Development/Review

- 2017 Census Test Analysis Report for Non-ID Processing operation (Internal review of final draft underway in preparation for briefing Decennial Research Objectives and Methods (DROM) working group, tentatively scheduled for October 10, 2017).

Summary of Activities (Last 30 Days)

Internet Self-Response

Continued analysis of 2017 Census Test data.

Non-ID Processing

Began internal review of the final draft of the analysis report for the Non-ID Processing operation.

Response Processing

The Decennial Statistical Studies Division completed review of the Census Unedited File (CUF) and approved it on September 5, 2017. The CUF provides the final status and population count for each living quarters included in the Census, representing the final census universe and the selected final results of the response data collection. It is used for count review and apportionment and is also the input into the Census Edited File.

Look Ahead (Next 60 Days)

Internet Self-Response

Continue analysis of 2017 Census Test data. There are no plans for an official report.

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 September.

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 October 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 October 31, 2017 due to resource limitations.) (Approved by the Decennial Research Objectives and Methods (DROM) Group and the 2020 Census Portfolio Management Governing Board (PMGB).)
- 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 Administrative Record Usage Report (Expected completion on October 31, 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 December 15, 2017.) 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.
- 2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report was issued in the 2020 Census Memorandum Series on September 15, 2017.

Status of Major 2020 Census Operations

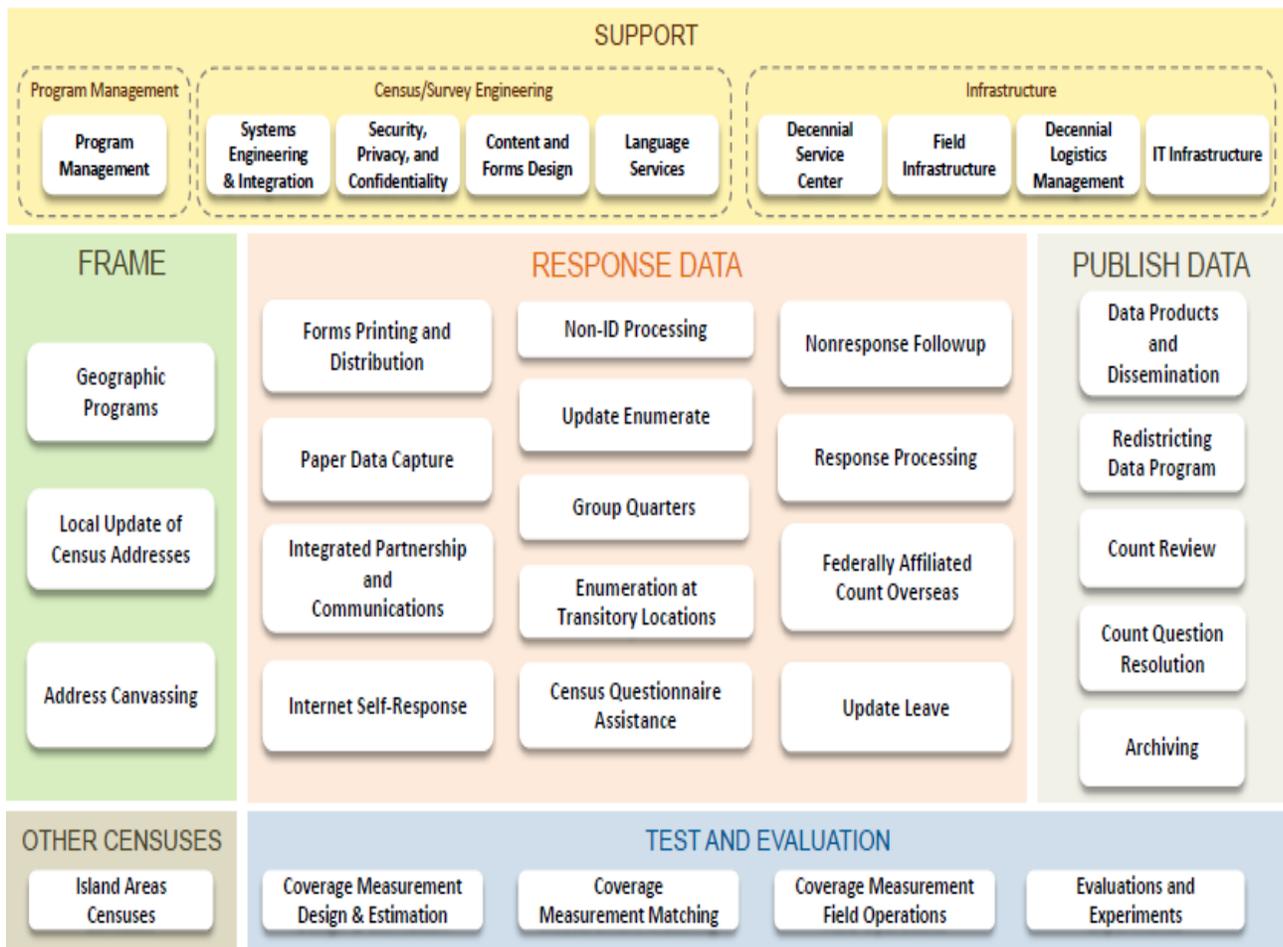
The 2020 Census includes 35 operations that are organized into eight major areas that correspond with the Census Bureau standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

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 9 – 19). Otherwise, they are reported on the relevant 2020 Census Operations pages (pages 21 – 37).

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
Critical Business Proposal Review (CBR)	Review of initial high-level architecture to ensure inclusion of appropriate systems to implement the desired subset of the 35 operations.
Project Baseline Review (PBR)	Review of program baselines. Schedule, organizational structure, risk, etc.
Systems Requirements Review (SRR)	Joint review of PLBR/CAP requirements by engineering and operations.
Critical Design Review (CDR)	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.
Test Readiness Review (TRR)	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.
Production Readiness Review (PRR)	Assessment of test results to ensure systems are ready for operations testing.
Operational Readiness Review (ORR)	Assessment of operational testing to ensure full operation is ready to go-live.

Table 2: 2018 SE&I Release Functionality Key

2018 Release	Functionality
Release A	In-Field Address Canvassing
Release B	Coverage Measurement – Independent Listing
Release C	Self-Response
Release D	Field Enumeration
Release E	Tabulation/Dissemination
Release F	RESERVED
Release G	Geographic Programs / Local Update of Census Addresses (LUCA)
Release H	RESERVED
Release I	In-Office Address Canvassing
Release J	RESERVED
Release K	Coverage Measurement – Initial Housing Unit Followup, Person Interview
Release L	Coverage Measurement – Person Interview Matching
Release M	Coverage Measurement – Person Followup
Release N	Coverage Measurement – Final Housing Unit Followup
Release O	Coverage Measurement – Reports & Release Findings
Release P	Partnership Activities
Recruiting Release 1	Address Canvassing, Coverage Measurement – Independent Listing, and Initial Housing Unit Followup Recruiting
Recruiting Release 2	Field Enumeration, Coverage Measurement – Person Interview, Person Followup, and Final Housing Unit Followup Recruiting
Training Release 1	Address Canvassing Training
Training Release 2	Field Enumeration Training
Coverage Measurement Sample Release	Initial Sample for Coverage Measurement

Census/Survey Engineering

Table 3: 2020 SE&I Release Functionality Key

2020 Release	Functionality
Release 1	Recruiting for all positions Selection/Hiring/Training of RAs, PAs, OOS & Clerks
Release 2	2018 Mapping [Release RR1,TR1,A,RR2, PES Sample] AdCan selection of CFSs, Enumerator and Listers PES Sample Release: Initial Sample for PES AdCan Training In-Field Address Canvassing Peak Operation Recruiting
Release 3	2018 Mapping [Release TR2, P,B,C,D,K,L] Advertising and Earned Media HU Count Review Peak Operation Training (includes UL/GQ/UE/NRFU) Post-Enumeration Survey- IL Training Post-Enumeration Survey - Independent Listing GQ Workload and Advaced Contact/CQA Training/Printing &Mailing Workload Remote Alaska Island Areas Censuses Enumeration at Transitory Locations Self-Response (includes Mailing/Self-Response/CQA /Coverage Improvement) Peak Operations (includes UL/UE/GQ/SBE/Early NRFU/NRFU) Post-Enumeration Survey-Person Interview Post-Enumeration Survey-Initial Housing Unit Follow-up Post-Enumeration Survey - PI Matching (E-Sample ID, Computer Matching, BFU Clerical Matching)
Release 4	2018 Mapping [Release E,M,N,O] Tabulation/Dissemination Archiving Federally Affiliated Count Overseas Redistricting Data Post-Enumeration Survey - Person Follow-up Count Question Resolution Post-Enumeration Survey - Final Housing Unit Follow-up Post-Enumeration Survey - Reports & Release Findings

Summary of Activities (Last 30 Days)

Systems Engineering and Integration (SE&I)

Completed the 2020 System Requirements Review #3 (SRR#3) on September 28, 2017. In SRR#3, the Decennial Census Management Division (DCMD) presented the business requirements for 2020 core operations plus Local Update of Census Addresses (LUCA) and Geographic Programs.

Content and Forms Design

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

Census/Survey Engineering

Summary of Activities (Last 30 Days) cont'd

Security, Privacy, and Confidentiality

1. Standardized the Systems List to ensure systems that are currently in the Risk Profile Management System (RPMS) tool match up with the name of the systems tracked by SE&I.
2. Developed an internal checklist for Integrated Project Teams (IPTs) on updating Privacy Impact Assessments (PIAs).

Look Ahead (Next 60 Days)

Systems Engineering and Integration (SE&I)

1. Hold a mini-Critical Design Review (CDR) for the Island Areas Censuses on October 4, 2017. This is a follow-up to CDR#2, which had some outstanding questions for the Island Areas Censuses. Some of these issues include: determining the network access and performance requirements from the Island Area Census Offices (IACOs), updating architecture to reflect use of Current Surveys versions of Integrated Computer Assisted Data Entry System (iCADE) and Clerical Coding, confirming plans to store data in the Census Data Lake (CDL), determining fingerprinting and badging plans, and determining whether training will be automated.
2. Hold Critical Design Review #3 (CDR#3) on October 26-27, 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.

Content and Forms Design

Create draft 2020 Census questionnaires and nonquestionnaire materials for internal stakeholder review.

Language Services

Begin translations of draft 2020 Census questionnaires and nonquestionnaire materials.

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. There were 232 calls received this month through September 24, 2017; of that number, 222 concerned the LUCA and the remainder, the Boundary and Annexation Survey (BAS), an annual survey that collects information about selected legally defined geographic areas. The BAS is used to update information about the legal boundaries and names of all governments; information collected is used to tabulate data for the decennial and economic censuses, and for annual estimates and surveys such as the Population Estimates Program and the American Community Survey (ACS).
3. Continued to process and update military and National Park 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 608 promotional presentations have been completed as of September 30, 2017 and another 76 promotional events are scheduled in October 2017 through November 2017. Started printing and shipping of LUCA Invitation Reminder packages on September 25, 2017, to tribal, state, and local governmental entities. Within the invitation Reminder 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 September 30, 2017, the Census Bureau had received 9,081 responses from the 39,332 unique governments that are eligible to participate and therefore received invitations. Of those, 4,828 had signed up to participate in the LUCA Operation and 4,253 had declined. The current count of addresses covered by the 4,828 registered governments is 79.7 million, which does not take into account overlapping jurisdictions that may be participating. Governments typically decline due to insufficient staff, because another level of government is participating, or because they are too busy.

Address Canvassing

The 2020 Census In-Office Address Canvassing Interactive Review (IR) production continues, and is meeting the expected production goals. The clerks have reviewed 11,155,278 blocks during Interactive Review from the beginning of production in September 2015 through September 30, 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:

Frame

Summary of Activities (Last 30 Days) cont'd

Address Canvassing cont'd

- 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 September 30, 2017, 75.2 percent of the blocks were classified as Passive, 18.1 percent were classified as Active, and 5.3 percent were classified as On-Hold. As of September 30, 2017, 159,881 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 1.4 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 September 30, 2017, staff have geocoded 350,190 address records out of the universe of 2,800,896 ungeocoded address records.

1. Conducted In-Office Address Canvassing Group Quarters training from September 18 – 21, 2017.
2. Began the In-Office Address Canvassing Group Quarters project at the National Processing Center on September 25, 2017.

United States Postal Service (USPS) Coordination Team

1. Completed both USPS and Census Bureau signatures on a Letter of Intent formalizing the partnership between the two organizations.
2. Distributed draft Interagency Agreement documenting the requirements, schedule, and cost information for the Postal Carriers as Enumerators Pilot for Stakeholder review on September 20, 2017.

Frame

Summary of Activities (Last 30 Days) cont'd

United States Postal Service (USPS) Coordination Team cont'd

3. Completed 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 on September 28, 2017.

Look Ahead (Next 60 Days)

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 76 workshops scheduled for October 2017 through November 2017.
2. 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.
3. 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.
4. Complete entering information from LUCA Invitation forms received from tribal, state, and local governments.
5. Complete printing and shipping of the LUCA Invitation Reminder packages to tribal, state, and local governments.

United States Postal Service (USPS) Coordination Team

1. Coordinate an October 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 (PDC)

1. Participated in multiple working sessions with the Decennial Contracts Execution Office's (DCEO) Government Program Management Office (GPMO) and the Technical Integrator (TI) to continue to define requirements that support the needs of PDC for the 2020 Census.
2. Participated in multiple sessions with the TI to finalize PDC Technical Directive (TD) 113. TD 113 is a follow-on to TD 103, which provides support for the PDC solution. TD 113 allows the work to continue into the first optional Period of Performance (PoP) of TD 103.
3. Participated in multiple sessions with the DCEO GPMO to complete a TD to provide support for the Intelligent Mail® Barcode Postal Tracking System (IPTS) for the 2020 Census. 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.
4. Collected comments on the TIs deliverable of the revised Business Process Model (BPM) for PDC as proposed for the 2020 Census.

Integrated Partnership and Communications (IPC) Program

1. The Integrated Communication Contractor (Team Y&R) held a paid media workshop that included the contractor's partners and Census Bureau staff from September 12 – 14, 2017.
2. Team Y&R together with Decennial Communications Coordination Office management held a strategic planning session on September 22, 2017.
3. Released the 2020 Census Integrated Communications Plan to the National Advisory Committee and the Census Scientific Advisory Committee on September 27, 2017.

Nonresponse Followup (NRFU)

1. Participated in three Joint Application Development (JAD) sessions to gain acceptance for operation capability requirements.
2. Presented at the 2020 Census System Requirements Review (SRR) held on September 28, 2017.
3. Submitted a change request for updating the operation Business Process Models for the 2020 Census. The updates were necessary to reflect refinements and clarifications on aspects of the NRFU operational design (e.g., procedures for multi-unit manager visits.)

Response Data

Summary of Activities (Last 30 Days) Cont'd

Census Questionnaire Assistance (CQA)

1. Continued revising the proposed version 2 of the CQA Detailed Operational Plan.
2. Developed the initial draft CQA schedule for the 2020 Census on September 29, 2017.

Update Leave (UL)

1. Delivered first draft of requirements of the 2020 UL reminder letter to the Content and Forms Design team on September 6, 2017.
2. Presented two new project risks on September 20, 2017, to the Integrated Project Team (IPT) for consideration.

Update Enumerate (UE)

1. Updated the requirements for the enumerator questionnaire and information sheet based on discussion and feedback from the UE IPT meetings on September 6, 13, and 20, 2017.
2. Received a demonstration of the Geographic Update Partnership Software on September 18, 2017, to determine the viability of using the software for updating the paper-based feature and address updates from the field.
3. Added one project risk, Readiness of Production Control System (PCS) Supporting Advance Contact, to the UE Risk Register on September 19, 2017.

Group Quarters (GQ)

1. Delivered preliminary copies of the 2020 Maritime Vessel Enumeration forms to Content and Forms Design Team on September 1, 2017.
2. Delivered preliminary copies of the 2020 GQ Integrated Master Schedule to Schedule Management Branch on September 15, 2017.
3. Presented 2020 GQ System Requirements Review to Decennial Systems Engineering & Integration Office on September 28, 2017.
4. Began work on the 2020 Address List Update program for GQ and Transitory Locations on September 1, 2017.

Enumeration at Transitory Locations (ETL)

1. Continue work with Content and Forms Design to draft a questionnaire for ETL.
2. Working 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.
5. Presented 2020 ETL Requirements Review to Decennial Systems Engineering & Integration Office on September 28, 2017.
6. Worked through a JAD session to allocate requirements for systems and solutions.
7. Presented updates to ETL program to the Federal-State Cooperative for Population Estimates (FSCPE) on September 21, 2017.

Response Data

Summary of Activities (Last 30 Days) Cont'd

Census Questionnaire Assistance (CQA)

1. Continued revising the proposed version 2 of the CQA Detailed Operational Plan.
2. Developed the initial draft CQA schedule for the 2020 Census on September 29, 2017.

Update Leave (UL)

1. Delivered first draft of requirements of the 2020 UL reminder letter to the Content and Forms Design team on September 6, 2017.
2. Presented two new project risks on September 20, 2017, to the Integrated Project Team (IPT) for consideration.

Update Enumerate (UE)

1. Updated the requirements for the enumerator questionnaire and information sheet based on discussion and feedback from the UE IPT meetings on September 6, 13, and 20, 2017.
2. Received a demonstration of the Geographic Update Partnership Software on September 18, 2017, to determine the viability of using the software for updating the paper-based feature and address updates from the field.
3. Added one project risk, Readiness of Production Control System (PCS) Supporting Advance Contact, to the UE Risk Register on September 19, 2017.

Group Quarters (GQ)

1. Delivered preliminary copies of the 2020 Maritime Vessel Enumeration forms to Content and Forms Design Team on September 1, 2017.
2. Began work on the 2020 Address List Update program for GQ and Transitory Locations on September 1, 2017.
3. Delivered preliminary copies of the 2020 GQ Integrated Master Schedule to Schedule Management Branch on September 15, 2017.
4. Presented 2020 GQ System Requirements Review to Decennial Systems Engineering & Integration Office on September 28, 2017.

Enumeration at Transitory Locations (ETL)

1. Continue work with Content and Forms Design to draft a questionnaire for ETL.
2. Working 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.
5. Presented updates to ETL program to the Federal-State Cooperative for Population Estimates (FSCPE) on September 21, 2017.
6. Presented 2020 ETL Requirements Review to Decennial Systems Engineering & Integration Office on September 28, 2017.
7. Worked through a JAD session to allocate requirements for systems and solutions.

Response Data

Summary of Activities (Last 30 Days) Cont'd

Federally Affiliated Count Overseas (FACO)

1. Updated the nonfunctional requirements, capability requirements and Business Process Model for system allocation.
2. Received approval for Change Request 418 to update the baseline capability requirements. Originally, the capability requirements for automating the data collection process for the FACO Operation were allocated to SharePoint. Once it was determined that SharePoint was unable to meet some of the security requirements, Change Request 418 was issued reallocating the capability requirements to Centurion.
3. Drafted high-level schedule.

Look Ahead (Next 60 Days)

Integrated Partnership and Communications (IPC)

1. Post the 2020 Census Integrated Communications Plan to the Census Bureau website for public release.
2. Team Y&R will deliver the first draft of the Rapid Response Roadmap on October 11, 2017.

Paper Data Capture

1. Review and comment on the following TI Deliverables: the Concept of Operations (ConOps) for the IPTS, the Final IPTS Solution and Physical Architecture, and the revised Analysis of Alternatives (AoA) regarding an automated conveyor for PDC operations for the 2018 End-to-End Census Test and 2020 Census.
2. Determine the new date for receiving from the TI an AoA regarding the proposed paper handling process recommended for Paper Data Capture operations in the 2018 End-to-End Census Test and 2020 Census.
3. Continue to work with the Technical Integrator team to redefine delivery dates for some deliverables and work products to be provided via PDC related Technical Directives. The intent is to ensure products received provide thorough business value as opposed to simply meeting deadlines.
4. Participate in the Test Readiness Review (TRR) 2 for Release C.
5. Participate in the Systems Readiness Review (SRR) 3.
6. Support the National Processing Center (NPC) in their facility design and layout of the 2020 Census PDC site (which differs from the site where the 2018 End-to-End Census Test will be conducted).

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.
3. Provide the initial draft of requirements for the enumerator questionnaire to Content and Forms Design.

Response Data

Look Ahead (Next 60 Days) Cont'd

Group Quarters (GQ)

1. Complete development of GQ Advance Contact and GQ Enumerations 2020 Census Integrated Master Schedule.
2. Start application requirements for Address List Update program.

Federally Affiliated Count Overseas (FACO)

Develop the 2020 Census Integrated Master Schedule for the operation.

Nonresponse Followup (NRFU)

1. Baseline the 2020 Census NRFU Detailed Operational Plan.
2. Develop the 2020 Census Integrated Master Schedule for the NRFU operation in preparation for the schedule integration meeting on October 13, 2017.
3. Obtain acceptance of all capability requirements that support the NRFU operation. This is an output of the System Requirements Review (SRR) on September 28, 2017 and Critical Design Review (CDR) on October 26, 2017.

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)

Redistricting Data Program (RDP)

1. Sent invitations to participate in Phase 2, the Voting District Project, of the 2020 RDP to official liaisons and notifications of that action to legislative leadership.
2. Finalized the design of the prototype 2020 Census P.L. 94-171 Redistricting Data File to be produced from the 2018 End-to-End Census Test. This design has begun circulating for clearance and publication in the Federal Register for public comment.

Look Ahead (Next 60 Days)

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 for the estimation operations.
2. Completed updating the PES Design and Estimation Business Process Model and Capability Requirements for the sampling operations.
3. Continued working on simulating the sample design for the 2020 PES. The goal of the simulation is to explore the impact of various sample design decisions on the sample size and weights for the PES. The simulation has been helping to set sampling parameters (such as determining sampling rates) and various design decisions (such as the cutoff between strata). The sample design will not be documented; the simulation is not intended to replace the sample design memorandum.
4. Completed the final round of reviews of high-level design requirements for Initial Housing Unit Matching and Followup and Final Housing Unit Matching and Followup.
5. Completed Integrated Project Team reviews of high-level design requirements for Person Interview and Reinterview and Person Followup and Matching.
6. Presented the Coverage Measurement Design and Estimation (CMDE) risks to the 2020 Census Risk Review Board.
7. Continued updating the CMDE 2020 Schedule.
8. Continued developing the following specifications:
 - 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. Completed updating PES Field and Matching Business Process Models.
2. Continued updating the Field Operations and Matching 2020 Schedule.
3. Continued developing PES Field Operations and Matching specifications and user stories.
4. Requested cost estimates from the Associate Director for Demographic Programs (ADDP) to determine the funding needed for ADDP to support the PES Field data collection operation.

Test and Evaluation

Summary of Activities (Last 30 Days) Cont'd

The Evaluations and Experiments team:

After review of 2020 Census evaluation and experiment proposals, the Decennial Research Objectives and Methods (DROM) working group prepared a response to authors and instructions for developing “round two” proposals. Following review and selection of round two proposals by the DROM, their recommended evaluations and experiments will go to the 2020 Census Portfolio Management Governing Board (PMGB), and following that review, will go to the 2020 Census Executive Steering Committee for ultimate decisions as to the scope of the research program.

The DROM working group reviewed the following:

1. Study Plan for the 2018 End-to-End Census Test: Fraud Detection Operational Assessment
2. Study Plan for the 2018 End-to-End Census Test: Internet Self-Response Operational Assessment
3. Study Plan for the 2018 End-to-End Census Test: Geographic Programs Operational Assessment
4. Quantitative Study Plan for 2020 Census Barriers, Attitudes, and Motivators Survey
5. The effect of the mail delivery date on survey login rates and help-line call rates (2017 Small Scale Mailout Testing – SMART Test SMarT Test)
6. The effect of removing instructions on web survey responses (2017 Small Scale Mailout Testing – SMART Test)

Look Ahead (Next 60 Days)

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

1. Baseline the PES Design and Estimation Business Process Model.
2. Participate in a Joint Application Development (JAD) session with Systems Engineering and Implementation to finalize 2020 Capability and Non-Functional Requirements.
3. Revise draft of the E-Sample Imputation Study Plan.
4. Present the Noninterview Adjustment Study Plan to the 2020 Census PMGB.
5. Review risks in the 2020 Coverage Measurement Design and Estimation Risk Register.
6. Revise the Coverage Measurement Design and Estimation schedule and integrate with other operational 2020 Census schedules.
7. Continue developing sampling specifications. PES 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.
8. Continue developing estimation specifications.
9. Document PES high-level design requirements for sampling.

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

1. Revise the PES Field and Matching schedule and integrate with other operational 2020 Census schedules.
2. Baseline the PES Field Operations and Matching Business Process Models and capability requirements.

Test and Evaluation

Look Ahead (Next 60 Days) Cont'd

Coverage Measurement Field Operations and Matching Integrated Project Team cont'd

3. Participate in a JAD session with Systems Engineering and Implementation to finalize 2020 Capability and Non-Functional Requirements.
4. Work with the Coverage Measurement Design and Estimation Integrated Project Team to document high-level design requirements.
5. Continue developing PES Field Operations and Matching specifications and user stories.
6. Review the cost estimates from the ADDP for supporting the PES Field data collection operation and make a recommendation.

The *Evaluations and Experiments* team:

Review and recommend evaluations and experiments for the 2020 Census to the 2020 Census PMGB.

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

1. Released the Field IT Deployment Request for Proposal (RFP) to National Institutes of Health Information Technology Acquisition and Assessment Center (NITAAC) on September 16, 2017. This RFP was released on the NITAAC Chief Information Officer-Solutions and Partners3 (CIO-SP3) contract vehicle; the NITAAC CIO-SP3 is an Indefinite Delivery/Indefinite Quantity (IDIQ) contract for IT solutions.
2. Began a 6-week series of Critical Design Reviews (CDRs) on September 27, 2017. Instead of presenting the IT Infrastructure design at CDR#2, it was determined to present topics over this series of meetings.

Decennial Service Center

1. Sent the RFP Sections C, L and M to Decennial Contracts Execution Office management for review.
2. Began drafting the Detailed Operational Plan.

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. Respond to questions on 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. Hold IT Infrastructure mini-CDRs on October 4, 11, and 25, 2017, and November 1, 2017, to fully present the 2020 Census design.
7. Incorporate Island Areas and Puerto Rico into field office rollout design.

Decennial Service Center

1. Finalize and release the 2020 Census Decennial Services Contract Draft Request for Proposal.
2. Create and integrate 2020 Census Decennial Service Center schedule into the 2020 Census Integrated Master Schedule.

Infrastructure

Look Ahead (Next 60 Days) cont'd

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.

Recruiting, Training, and Onboarding

Award Third-Party Vendor (3PV) Fingerprinting Vendor Contract in early October 2017.

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 its censuses and surveys. In the past, the Census Bureau created and used a new, unique system for every survey and census it conducted. CEDCaP creates an enterprise-wide approach to building data capabilities for the 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)

Provided final version of vision/scope documentation for 2020 Census CEDCaP release to 2020 Census program for 2020 Census Portfolio Management Governing Board (PMGB) approval.

CEDCaP Program

Worked with Information Systems Support & Review Office (ISSRO) and Office of Cost Estimation, Analysis, and Assessment (OCEAA) on Q1 Quarterly Update to CEDCaP estimates.

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, including Critical Design Review, on October 26, 2017.
3. Receive approval from the 2020 Census PMGB of the CEDCaP 2020 Census vision/scope documentation.

CEDCaP Program

1. Complete Program Increment 22 and conduct the Program Increment 23 Planning session. For Program Increment 22, the focus of the CEDCaP project teams is Releases A, C, and D for the 2018 End-to-End Census Test. For Program Increment 23, the focus of the CEDCaP Project teams is Releases C and D for the 2018 End-to-End Census Test. Program increments are consecutive 40-day intervals in which Agile development is done.
2. Complete Internet Self-Response Q2 Quarterly Update to CEDCaP estimates.

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 Census Bureau 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 33 of the 35 operations that constitute the 2020 Census, and 16 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>>). (The two operations for which DOPs are not produced are Program Management and Systems Engineering and Integration; it is believed that these two operations produce a variety of other specific artifacts and outputs that are more suited to showing the progress and contributions of these operations.)
2. Continued working actively to close open recommendations from GAO and OIG.
3. The Census Bureau hosted a successful International Census Forum from September 5 – 8, 2017, to discuss plans and progress for the next round of censuses in various countries. Participants included representatives from Scotland, Ireland, Northern Ireland, England & Wales, Canada, New Zealand, and Australia.
4. Participated in the Census Scientific Advisory Committee fall meeting, September 14 – 15, 2017.
5. Received final report from OIG for audit on *2016 Address Canvassing Test: Interactive Address Canvassing Operations Review* on September 13, 2017.
6. Delivered 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 on September 22, 2017.
7. Held an entrance meeting for GAO audit on *2020 Census Schedule* on September 26, 2017. The objectives of this audit are assess to what extent the Census Bureau has improved its use of best practices for scheduling key projects; and to what extent have key decisions reflected in the 2020 Census Integrated Master Schedule (IMS) been made on schedule.
8. GAO currently has three audits in progress related to the 2020 Census:
 - 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

Oversight & Stakeholder Engagement

Summary of Activities (Last 30 Days) Cont'd

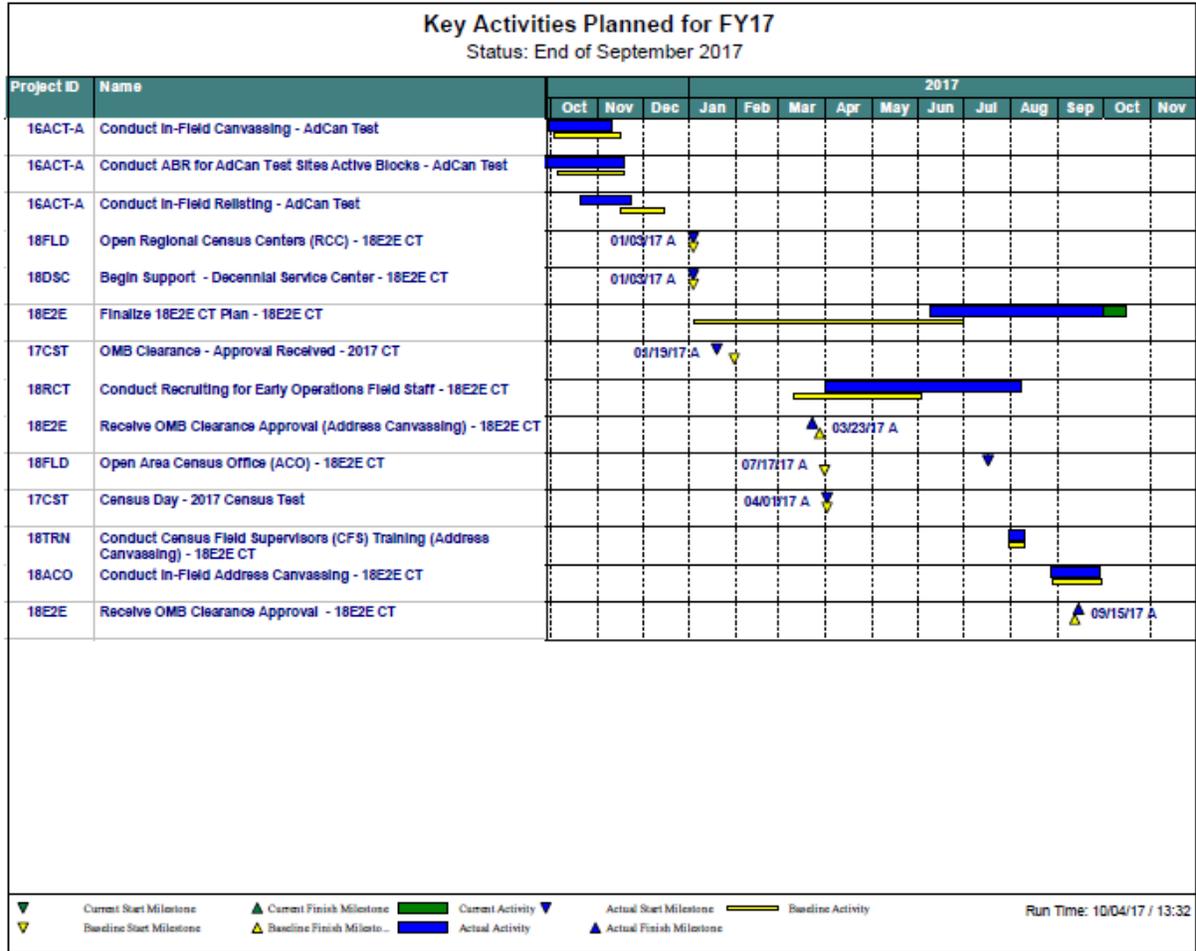
plans for the Address Canvassing operation in the Test, and was the Test conducted according to those plans? 2) To what extent did the technology and operational components perform, and what opportunities were identified that the Census Bureau can build on for the 2020 Census?

- Continues to audit the Census Bureau's 2020 Schedule. The audit is seeking to answer two questions: 1) To what extent has the Census Bureau improved its use of best practices for scheduling key projects, and 2) to what extent have key decisions reflected in the Census Bureau's Integrated Master Schedule (IMS) been made on schedule?
9. OIG currently has four audits in progress related to the 2020 Census:
- 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 the Census Bureau 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 Census 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. Participate in the United Nations Economic Commission for Europe, Conference of European Statisticians, in Geneva, Switzerland, October 2 – 6, 2017. Deirdre Bishop, Chief of Geography Division, will make a presentation on overcoming barriers to effective and efficient enumeration in the 2020 Census.
2. Hold quarterly meeting with GAO to discuss Open Recommendations, Strategies and Priorities on October 4, 2017.
3. Deliver action plan in response to the OIG final report: *2016 Address Canvassing Test: Interactive Address Canvassing Operations Review* by October 10, 2017.
4. Participate in the Population Association of America's Committee on Population Statistics, October 12 – 13, 2017.
5. Participate in the Alaska Federation of Natives 2017 Annual Convention in Anchorage, Alaska, October 19 – 21, 2017.
6. Hold quarterly 2020 Census Program Management Review on October 27, 2017.
7. Participate in the Population Association of America's Hill Briefing on October 30, 2017.
8. Provide updates on 2020 Census activities at the National Advisory Committee fall meeting, November 2 – 3, 2017.

Program Schedule Metrics Research & Testing



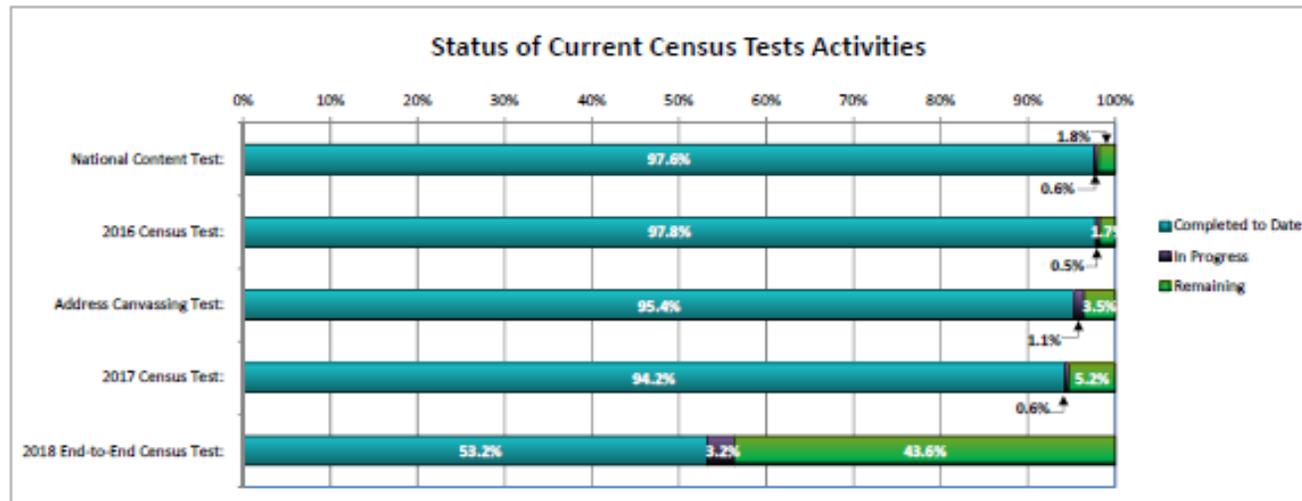
Explanations for Project Start/Finish Delays

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

Reason for Delay: The test plan is going through Decennial Census Management Division review. This may take until October 6, 2017.

Program Schedule Metrics Research & Testing

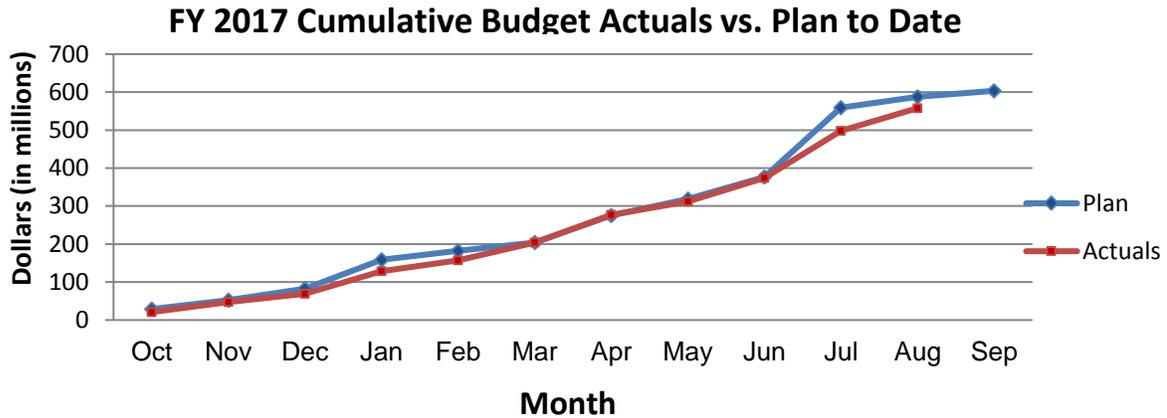
Status of Census Tests through September 30, 2017



	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	1552	10	86
2018 End-to-End Census Test:	6285	3345	199	2741

Processed on: 10-04-2017

Program Budget/Costs as of August 31, 2017



	August Cum Plan	August Cum Actuals	August Cum Variance	% Variance
GRAND TOTAL	\$587,684,368	\$557,848,621	\$29,835,747	5.1%

At the end of August, the \$29.8M variance in the 2020 Census program consists of \$12.0M lower than expected costs in salaries and \$17.8M 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. The other objects variance is due to delay in obligation of the following contracts: 1) Technical Integrator (TI) Government Program Management Office (GPMO) support, 2) Geographic Update Partnership System (GUPS) and Geographic data processing product, 3) American Community Survey (ACS)-Decennial Tabulation System, 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).

R1 Program Management	\$60,805,483	\$58,938,764	\$1,866,719	3.1%
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The variance in this area consists of \$0.8M lower than expected costs in salaries and \$1.1M 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) minimal number of EEO complaints being processed for Decennial Operations, 2) contract to provide management and technical support to the TI Government Program Management Office (GPMO), and 3) delay in obligating the contract to support critical senior leadership priorities for Human Resources (HR) succession management, knowledge management, program activities, as well as key priorities for 2020 Census communications and marketing infrastructure development.

R2 Census/Survey Engineering	\$186,211,540	\$169,831,784	\$16,379,756	8.8%
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The variance in this area consists of \$0.01M higher than expected costs in salaries and \$16.4M 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).

R3 Frame	\$58,831,174	\$48,571,730	\$10,259,444	17.4%
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The variance in this area consists of \$2.2M lower than expected costs in salaries and \$8.1M 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 contracts: 1) Exadata Hardware maintenance, 2) GUPS 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.

R4 Response Data	\$84,509,331	\$112,092,356	(\$27,583,025)	-32.6%
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The variance in this area consists of \$3.9M higher than expected costs in salaries and \$23.7M 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.

R5 Published Data	\$21,089,578	\$18,808,160	\$2,281,418	10.8%
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The variance in this area consists of \$0.09M lower than expected costs in salaries and \$2.3M 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.

R6 Test and Evaluation	\$37,395,180	\$31,043,971	\$6,351,209	17.0%
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The variance in this area consists of \$3.9M lower than expected costs in salaries and \$2.5M 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 as 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) the SMarCS Development Support contract for the Sampling, Matching, Review, and Coding System development.

R7 Infrastructure	\$138,842,082	\$118,561,856	\$20,280,226	14.6%
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The variance in this area consists of \$9.2M lower than expected costs in salaries and \$11.1M lower than expected costs in other objects. Salary variance is 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, 4) Budget has not assessed the Decennial rent, security, and IT Reinvestment, and 5) 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. There is no impact to the program as we expect these obligations to occur in September.

Notes:

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

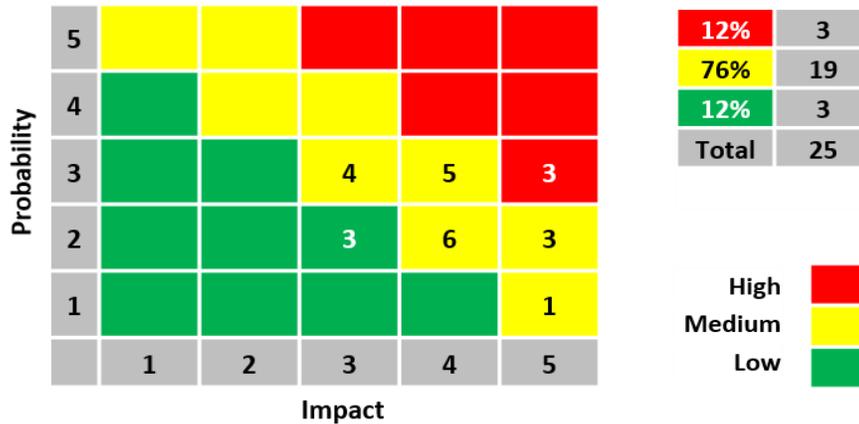
2) We report budget variance data as currently as possible. When the Monthly Status Report is prepared, we have not yet received budget variance data from the current month, so data from the previous month is what we include.

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	M	↔	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	M	↔	2	5
16	LC-001	Cost Model Projections	M	M	↔	2	4
17	LC-012	External Support	M	M	↔	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 August Monthly Status Report (MSR):

1. There were no changes to the program risks since the August 2017 MSR.
2. 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.

3. 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.

4. The program issue titled "Delays in Provisioning Infrastructure for the 2018 E2E CT" remained open.

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.

5. The program issue titled "dDaaS Stop Work Order" was opened.

Description: The decennial Device as a Service (dDaaS) contract was awarded on June 29, 2017 to CDW-G. On June 30, 2017, a protest was filed. The Government Accountability Office issued a "stay" to stop performance on the contract. The "stay" meant the Census Bureau could not proceed in receiving work and services from CDW-G. The Census Bureau Acting Director overrode this stay and work was resumed. The United States Federal Claims Court overruled the Census Bureau's resumption of work on August 11, 2017. On Monday, August 14, 2017, the Census Bureau contracting officer issued a new stop work order that will remain in effect until GAO resolves the protest.

Impact: dDaaS via CDW-G is in a "stop work" status. No work may be performed via the CDW-G contract until GAO issues their recommendation. The Census Bureau has initiated a contingency plan where devices and services are borrowed or acquired so work can continue on the 2018 End-to-End Census Test. Smartphones were scheduled to be

provided for the Census Field Supervisors (CFSs), Recruiting Assistants out of Providence, Rhode Island, and the Enterprise Censuses and Surveys Enabling (ECaSE) Software developers, testers and trainers. Further, dDaaS was scheduled to provide all mobile devices and services for the remainder of the 2018 End-to-End Census Test operations and through 2020. Work will hopefully resume in October 2017.

Appendix

Appendix A: 2020 Census Operations and Purpose

Operations	Purpose
Census/Survey Engineering	
Systems Engineering and Integration	The Systems Engineering and Integration operation (SEI) manages the delivery of a system of systems that meets 2020 Census Program business and capability requirements.
Security, Privacy, and Confidentiality	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"> • Appropriate systems and data security. • Respondent and employee privacy and confidentiality.
Content and Forms Design	The Content and Forms Design (CFD) operation performs the following activities: <ul style="list-style-type: none"> • Identify and finalize content and design of questionnaires and associated nonquestionnaire materials such as letters, postcards, brochures, envelopes, flashcards, and field materials. • Ensure consistency across data collection modes and operations, including (but not limited to) questionnaire content, help text, mailing materials, and field materials. • Provide the optimal design and content of the questionnaires to encourage high response rates.
Language Services	The Language Services (LNG) operation performs the following activities: <ul style="list-style-type: none"> • Assess and support language needs of non-English speaking populations. • Determine the number of non-English languages and level of support for the 2020 Census. • Optimize the non-English content of questionnaires and associated nonquestionnaire materials across data collection modes and operations. • Ensure cultural relevancy and meaningful translation of 2020 Census questionnaires and associated nonquestionnaire materials.
Frame	
Geographic Programs	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"> • Geographic Delineations. • Geographic Partnership Programs. • Geographic Data Processing.
Local Update of Census Addresses	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).
Address Canvassing	The Address Canvassing (ADC) operation serves two purposes: <ul style="list-style-type: none"> • Deliver a complete and accurate address list and spatial database for enumeration. • Determine the type and address characteristics for each living quarter.

Operations	Purpose
Response Data	
Forms Printing and Distribution	<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"> • Internet invitation letters. • Reminder cards or letters or both. • Questionnaire mailing packages. • Materials for other special operations, as required. <p><i>Other materials required to support field operations are handled in the Decennial Logistics Management or Field Infrastructure operations.</i></p>
Paper Data Capture	<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"> • Mail receipt. • Document preparation. • Scanning. • Optical Character Recognition. • Optical Mark Recognition. • Key From Image. • Editing and checkout.
Integrated Partnership and Communications	<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"> • Support Field recruitment efforts for a diverse, qualified Census workforce. • Engage and motivate people to self-respond, preferably via the Internet. • Raise and keep awareness high throughout the entire 2020 Census to encourage response. • Effectively support dissemination of Census data to stakeholders and the public.
Internet Self-Response	<p>The Internet Self-Response (ISR) operation performs the following functions:</p> <ul style="list-style-type: none"> • Maximize online response to the 2020 Census via contact strategies and improved access for respondents. • Collect response data via the Internet to reduce paper and NRFU. ▪ Provide Paper Questionnaires to respondents who request paper materials only.
Non-ID Processing	<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"> • Providing response options that do not require a unique Census ID. • Maximizing real-time matching of non-ID respondent addresses to the Census living quarters address inventory. • Accurately assigning nonmatching addresses to census blocks. • Conducting validation of all non-ID responses.
Update Enumerate	<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"> • Verifying and updating the address list and feature data. • Determining the type and address characteristics for each living quarter. • Enumerating respondents at housing units within the UE geographic areas.

Operations	Purpose
Update Leave	<p>The Update Leave (UL) operation serves two purposes:</p> <ul style="list-style-type: none"> • Verify and update the address list and feature data. • Link and deliver a choice questionnaire package to each housing unit in the designated area for the household to self respond.
Group Quarters	<p>The 2020 Census Group Quarters (GQ) Operation will:</p> <ul style="list-style-type: none"> • Enumerate people living or staying in group quarters. • 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.
Enumeration at Transitory Locations	<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>
Census Questionnaire Assistance	<p>The Census Questionnaire Assistance (CQA) operation has two primary functions:</p> <ul style="list-style-type: none"> • Provide questionnaire assistance for respondents by answering questions about specific items on the Census form or other frequently asked questions about the Census; • Tier 1: Provide telephone assistance via an Interactive Voice Response (IVR). • Tier 2: Provide real-time assistance over the telephone or web chat. via CQA agents. • Provide an option for respondents to complete a Census interview over the telephone.
Nonresponse Followup	<p>The Nonresponse Followup (NRFU) Operation serves two purposes:</p> <ul style="list-style-type: none"> • Determines housing unit status for nonresponding addresses that do not self-respond to the 2020 Census. • Enumerates households that are determined to have a housing unit status of occupied.
Response Processing	<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"> • Create and distribute the initial 2020 Census enumeration universe of living quarters. • Assign the specific enumeration strategy for each living quarter based on case status and associated paradata. • Create and distribute workload files required for enumeration operations. • Track case enumeration status. • Run post data collection processing actions in preparation for producing the final 2020 Census results. • Check for invalid or potential fraudulent returns.
Federally Affiliated Count Overseas	<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>
Publish Data	
Data Products and Dissemination	<p>The Data Products and Dissemination (DPD) operation performs three primary functions:</p> <ul style="list-style-type: none"> • Prepare and deliver the 2020 Census apportionment data for the President of the United States to provide to Congress by December 31, 2020. • Tabulate 2020 Census data products for use by the states for redistricting. • Tabulate and disseminate 2020 Census data for use by the public.

Operations	Purpose
Redistricting Data Program	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.
Count Review	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"> • Implementing an efficient and equitable process to identify missing housing units. • Identifying and correcting missing or geographically misallocated large group quarters and their population. • Positioning remaining count issues for a smooth transition to the CQR operation.
Count Question Resolution	The Count Question Resolution (CQR) operation provides a mechanism for governmental units to challenge their official 2020 Census results.
Archiving	The Archiving (ARC) operation performs the following functions: <ul style="list-style-type: none"> • 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). • Provides similar files to the NPC to use as source materials to conduct the Age Search Service.
Other Censuses	
Island Areas Censuses	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.
Test and Evaluation	
Coverage Measurement Design and Estimation	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.
Coverage Measurement Matching	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.
Coverage Measurement Field Operations	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.
Evaluations and Experiments	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"> • Measures success of critical 2020 Census operations and processes.

Operations	Purpose
	<ul style="list-style-type: none"> • Formulates a 2020 Census experimental program that will further refine 2030 Census operational design options. • Contributes to the formulation of the 2030 Census Research and Testing phase objectives. • Develops a transition plan and appropriate organizational structures to establish 2030 Census life cycle planning. • Initiates other early planning activities for the 2030 Census, including the monitoring of policy concerns and technological, societal, and public cooperation trends. • Produces an independent assessment of coverage via Demographic Analysis.
Infrastructure	
Decennial Service Center	The Decennial Service Center (DSC) will support 2020 Census field operations and handle all service requests initiated by field staff.
Recruiting, Training, and Onboarding	<p>The Field Infrastructure (FLDI) operation performs the following functions:</p> <ul style="list-style-type: none"> • Coordinates space acquisition for, and lease management of, the RCC and Area Census Offices. • 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"> ◦ Recruiting. ◦ Hiring and onboarding. ◦ Personnel and payroll administration. ◦ Training. ◦ Partnership support. ◦ Management and supervision. ◦ Clerical support. ◦ Materials supply. ◦ Printing and plotting.
Decennial Logistics Management	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.
IT Infrastructure	<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"> • Enterprise systems and applications. • Decennial-specific systems, applications, and interfaces. • Field IT infrastructure (RCC, field office, and paper data capture center). • Mobile computing. • Cloud computing.
Program Management	
Program Management	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 infrastructure¹ 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

3PV	Third-Party Vendor
ABR.....	Active Block Resolution
ACA.....	Affordable Care Act
ACO	Area Census Offices
ACS	American Community Survey
ADDP.....	Associate Director for Demographic Programs
ADSD	Applications Development and Services Division
AMO	Area Manager of Operations
AMSD	Administrative and Management Systems Division
AoA.....	Analysis of Alternatives
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
CMDE.....	Coverage Measurement Design and Estimation
CMS	Center for Medicare and Medicaid Studies
COMPASS	Census Operations Mobile Platform for Adaptive Services and Solutions
COOP.....	Continuity of Operations
CQA	Census Questionnaire Assistance
CPASS.....	Census Public Access Security System
CRM.....	<i>Customer Relationship Management</i>
CSAC	Census Scientific Advisory Committee
CSM	Center for Survey Measurement
DAPPS	Decennial Applicant, Personnel, and Payroll System
DART.....	Decennial Architecture Requirements Team
DCBO	Decennial Communications and Budget Office
DCEO.....	Decennial Contracts Execution 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
 IMb.....Intelligent Mail® Barcode
 IMS Integrated Master Schedule
 IPC Integrated Partnership and Communications
 IPT Integrated Project Team
 IPTS.....Intelligent Mail® Barcode Postal Tracking System*
 IR Interactive Review
 IRS *Internal Revenue Service*
 ISR Internet Self-Response
 ISSRO.....Information Systems Support & Review Office
 IT *Information Technology*
 JAD Joint Application Development
 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

*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 current 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. 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 IPTS can see the status/location of that mail piece.

MAF Master Address File
 MAF/TIGER..... Master Address File/Topologically Integrated Geographic Encoding and Referencing
 MAFCS.....Master Address File Coverage Study
 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
 NITAAC.....National Institutes of Health Information Technology Acquisition and Assessment Center
 “Notify Me” [Census Bureau’s Preregistration Tool]
 NPC..... National Processing Center
 NRFU Nonresponse Followup
 NTC..... Note for Correspondents
 OCEAA.....Office of Cost Estimation, Analysis, and Assessment
 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
 PIA.....Privacy Impact Assessment
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
 R&A.....Recruiting and Assessment
 RCC Regional Census Center
 RDP..... Redistricting Data Program
RFI Request for Information

**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.

RFP *Request for Proposal*
RO..... Regional Office
ROckIT Reorganized Census with Integrated Technology [Reengineered Field Operations]
RPMS.....Risk Profile Management System
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
TD.....Technical Directive
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*
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.