National Healthcare Safety Network (NHSN) OMB Control No. 0920-0666 Expiration 12/31/2015 Revision Request, 06/10/2013 Supporting Statement Part A

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The Centers for Disease Control and Prevention (CDC) is requesting 3-year approval of revisions to OMB Control No. 0920-0666: National Healthcare Safety Network. This collection is currently approved for 4,905,350 responses and 3,562,653 burden hours. This revision request includes removing one form, adding nine forms, and revisions to 32 previously approved forms. The reporting burden will increase by 542,122 hours, for a total estimated burden of 4,104,776 hours; annual cost of reporting would increase by \$10,782,602.

A. Justification

1. Circumstances Making the Collection of Information Necessary <u>Background</u>

The Division of Healthcare Quality Promotion (DHQP), National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), Centers for Disease Control and Prevention (CDC) collects data from healthcare facilities in the National Healthcare Safety Network (NHSN) under OMB Control Number 0920-0666. OMB most recently approved this request on 12/21/2012 for 3,562,653 burden hours. Approval of this revision request would result in a net increase of 542,123 burden hours. This collection of information is authorized by the Public Health Service Act (42 USC 242b, 242k, and 242m(d)) (Attachment A).

The previously-approved NHSN OMB revision in December 2012 included 48 individual data collection forms; the current revision request includes revision of 32 of the previously approved forms, the addition of nine new forms, and the removal of one data collection form, for a total of 56 proposed data collection forms (Attachment C). A detailed explanation of the proposed program changes are provided in Attachment D-1. An itemized list of changes proposed to each data collection form and their justifications are provided in Attachment D-2.

In summary, the proposed revisions to the information collection tools in NHSN include the following program changes:

- **1)** There are multiple updates and clarifications made to 32 of the approved data collection tools resulting in both increases and decreases to burden estimates.
- 2) A new component will be launched within NHSN that will be specifically tailored to dialysis facilities. Over the past year, the number of outpatient dialysis facilities participating in NHSN has increased exponentially. As of May 13, 2013, there were approximately 5,700 outpatient dialysis facilities enrolled in NHSN, accounting for about 50% of all facilities in NHSN. Historically, dialysis surveillance has been a module within the Patient Safety Component along with modules for surveillance in inpatient healthcare settings. However, the outpatient dialysis setting is very different than inpatient healthcare settings, and the type of NHSN user representing outpatient dialysis facilities is different than most NHSN users representing inpatient healthcare settings. Two goals are achieved by moving dialysis to its own NHSN component:

- Tailor the NHSN user interface for dialysis users to simplify their data entry and analysis processes.
- Provide options for expanding the Dialysis Component in the future to include dialysis surveillance in settings other than outpatient facilities (e.g., home hemodialysis, peritoneal dialysis, etc.).

With this new component, the three previously approved dialysis forms have been revised and renumbered. There have also been four new forms added for this component.

3) The NHSN Outpatient Procedure Component (OPC) was developed amid increasing interest in the public health impact of infections and other outcomes related to outpatient procedures that are performed in settings such as Ambulatory Surgery Centers (ASCs), Hospital Outpatient Departments (HOPDs), and physicians' offices. Though outbreak investigations by state health departments and the Centers for Disease Control and Prevention (CDC) have shown that serious adverse outcomes of outpatient procedures do occur, there are no national estimates of the number of healthcare associated infections (HAIs) or other adverse outcomes originating in ASCs or HOPDs. As of 2010, there were more than 5,300 Medicare-certified ASCs in the U.S., which represents an approximate 50% increase since 2002. Also, a majority (89%) of acute care hospitals provided outpatient surgery services in 2009

(<u>http://www.medpac.gov/chapters/Jun10DataBookSec8.pdf</u>, chart 8-8 and 8-15).

The OPC provides surveillance methods to identify and track process and outcomes measures of outpatient procedures that are performed in freestanding ASCs. It is anticipated that some or all event types of the OPC may also be available for future use in HOPDs. However, more work is needed to address how to implement the OPC without requiring duplicative or burdensome new reporting requirements in addition to the surgical site infection (SSI) and CMS, Hospital Outpatient Quality Reporting measures that are already being reported by HOPDs.

Three event types are included in the NHSN Outpatient Procedure Component (OPC) and planned for implementation beginning in 2014: Same Day Outcome Measures, Prophylactic Intravenous (IV) Antibiotic Timing, and Surgical Site Infection (SSI).

4) The breadth of organism susceptibility data required on all of the healthcare-associated infection (HAI) report forms (i.e., BSI, UTI, SSI, PNEU (VAP and VAE), DE, LTUTI, and MDRO Infection Surveillance) has been reduced for the purposes of streamlining, simplification, and removing undue burden where possible. Of those that are tracked and reported, the remaining required organisms and antimicrobials are among the most common to cause HAIs reported into NHSN. As these organisms cause the most serious resistant infections, it is important to infection prevention and control that these requirements remain. The specific reductions include: removal of "Intermediate" as a susceptibility result category for Colistin/Polymyxin B to match standardized test results; two less commonly reported pathogens were completely removed - Serratia marcescens and Stenotrophomonas maltophilia; seven antibiotics of lower concern were removed for Enterococcus reporting; antibiogram requirements for Enterococcus will be limited to the

most common and serious species - Enterococcus faecalis, Enterococcus faecium and Enterococcus spp. not identified to the species level; two antibiotics of lower concern were removed for Staphylococcus aureus; one antibiotic of lower concern was removed for the Enterobacteriaceae organisms (E.coli, Enterobacter, Klebsiella); and the antibiogram requirements for Klebsiella will be limited to the most common and serious -Klebsiella pneumonia and Klebsiella oxytoca.

- **5)** Significant changes were made to the NHSN Biovigilance Component as a result of a subject matter expert and stakeholder working groups conducted in Spring 2013. The changes made to the six Hemovigilance forms in this PRA package are aimed at decreasing the burden and increasing the participation for this component of NHSN. One form, 57.302- Hemovigilance Module Monthly Incident Summary, was removed from this package as it was determined that this form should no longer be required per NHSN Biovigilance surveillance protocol. All five remaining Hemovigilance forms underwent significant revisions.
- 6) A new form (57.600 State Health Department Validation Record) represents a collection of aggregate validation results that will be collected by state health departments when conducting facility-level validation of NHSN healthcare-associated infection (HAI) data within their jurisdictions using the CDC/NHSN Validation Guidance and Toolkits. Validation of NHSN data is important to state health departments as the data are used for facility reimbursement, policy making, and consumer information. The NHSN application will be built to accept these data entries and will maintain a dataset that will provide state health departments with calculations of sensitivity, specificity, and accuracy of the NHSN facility-reported HAI data. This form allows state health departments to collect validation data for any of the possible mandated HAIs and for any year of data that is validated. The purpose of state health departments entering these data into NHSN is to maintain high-level security of facility-specific validation results. The data collection form and the calculations and aggregations of entered data is being provided to the state health departments to maintain standardized, comparable, and reliable validation results. This also serves to ease the burden off of state health departments for the independent creation of data collection forms, a system database, and appropriate metric calculations.

1.1 <u>Privacy Impact Assessment</u> <u>Overview of Data Collection System</u>

The NHSN currently consists of four components: Patient Safety, Healthcare Personnel Safety, Biovigilance, and Long-Term Care Facility. Two new components will be added to NHSN within the next 1.5 years: Dialysis Component & Outpatient Procedure Component. In general, the data reported under the Patient Safety Component protocols are used to (1) determine the magnitude of the healthcare-associated adverse events under study, trends in the rates of the events, in the distribution of pathogens, and in the adherence to prevention practices, and (2) to detect changes in the epidemiology of adverse events resulting from new medical therapies and changing patient risks. Additionally, reported data will be used to describe the epidemiology of antimicrobial use and resistance and to understand the relationship of antimicrobial therapy to this growing problem. Under the Healthcare Personnel Safety

Component protocols, data on events--both positive and adverse--are used to determine (1) the magnitude of adverse events in healthcare personnel and (2) compliance with immunization and sharps injuries safety guidelines. Under the Biovigilance Component, data on adverse reactions and incidents associated with blood transfusions are used to provide national estimates of adverse reactions and incidents. The Long-Term Care Facility (LTCF) Component more specifically and appropriately captures data from the residents of skilled nursing facilities. Reporting methods have been created by using forms from the Patient Safety Component as a base, with modifications to specifically address the nuances of LTCF residents.

The new dialysis component was developed in order to separate reporting of dialysis events from the Patient Safety Component. The new component will tailor the NHSN user interface for dialysis users to simplify their data entry and analyses processes as well as provide options for expanding the Dialysis Component in the future to include dialysis surveillance in settings other than outpatient facilities. The new Outpatient Procedure Component was developed to gather data on the impact of infections and other outcomes related to outpatient procedures that are performed in settings such as Ambulatory Surgery Centers (ASCs), Hospital Outpatient Departments (HOPDs), and physicians' offices. Three event types will be monitored in this new component: Same Day Outcome Measures, Prophylactic Intravenous (IV) Antibiotic Timing, and Surgical Site Infections (SSI).

The surveillance data are typically obtained by designated and trained staff, primarily registered nurses in infection control or occupational health or transfusion medicine laboratory personnel who routinely access administrative and clinical services reports and medical records, make observations during ward and patient rounds, and verbally discuss patients' conditions with direct caregivers. Persons with training in other healthcare disciplines such as medical technology and microbiology also perform surveillance. Information on antibiotic resistance of clinical isolates and antimicrobial use is reported from the clinical laboratory and pharmacy, respectively. In most institutions, the data are recorded on hard-copy data collection forms and later entered into the NHSN web interface. However, roughly 16.5% of hospitals submit data electronically directly from a vendor system using Clinical Document Architecture (CDA).

Description of Information to be Collected

Items of information to be collected include surveillance data related to various healthcare-associated adverse events and trends. Examples of these items are medical information and notes, medical records numbers, date of birth, gender, and biological specimen information. Personal identifying information is collected for one of two purposes. The information is used to either a) enumerate a specific event and minimize duplication (e.g., medical record number) and b) analyze risk factors related to the event data being collected (e.g., date of birth and gender). Data are reported to CDC and CDC aggregates the data for national surveillance and public health practice evaluation purposes.

2. Purpose and Use of Information Collection

The data collected under OMB Control No. 0920-0666 are used for:

- Estimation of the magnitude of healthcare-associated infections (HAIs)
- Monitoring of HAI trends
- Facilitation of interfacility and intrafacility comparisons with risk-adjusted data that can be used for local quality improvement activities

• Assistance to facilities in developing surveillance and analysis methods that permit timely recognition of patient safety problems and prompt intervention with appropriate measures.

NHSN is used to determine the magnitude of various healthcare-associated adverse events and trends in the rates of these events among patients and healthcare personnel with similar risks or exposures. The NHSN provides facilities with risk-adjusted data that can be used for inter-facility comparisons and local quality improvement activities. CDC also assists facilities in developing surveillance and analysis methods that permit timely recognition of patient and healthcare personnel safety problems and prompt intervention with appropriate measures. Finally, facilities can conduct collaborative research with NHSN member facilities. For example, facilities can describe the epidemiology of emerging HAIs and pathogens, assess the importance of potential risk factors, further characterize HAI pathogens and their mechanism of resistance, and evaluate alternative surveillance and prevention strategies. In aggregate, CDC analyzes and publishes surveillance data to estimate and characterize the national burden of healthcareassociated infections. These publications can be accessed here: http://www.cdc.gov/nhsn/dataStat.html.

NHSN is also increasingly being used to satisfy state-mandated HAI reporting requirements. Thirty states and the District of Columbia have implemented HAI reporting requirements using NHSN as the reporting mechanism and more are expected in the coming years. In addition, the Centers for Medicare and Medicaid Services (CMS) now requires Medicare-eligible acute care hospitals, inpatient rehabilitation facilities, long-term acute care hospitals, dialysis facilities, and oncology hospitals to report HAI data to CMS via NHSN. Therefore, the following purposes have been added to meet these needs:

- Comply with legal requirements including but not limited to state or federal laws, regulations, or other requirements for mandatory reporting of healthcare facility-specific adverse event, prevention practice adherence, and other public health data.
- Enable healthcare facilities to report HAI and prevention practice adherence data via NHSN to the U.S. Centers for Medicare and Medicaid Services (CMS) in fulfillment of CMS's quality measurement reporting requirements for those data.
- Provide state departments of health with information that identifies the healthcare facilities in their state that participate in NHSN.
- Provide to state agencies, at their request, facility-specific, NHSN patient safety component and healthcare personnel safety component adverse event and prevention practice adherence data for surveillance, prevention, or mandatory public reporting.

2.1 <u>Privacy Impact Assessment Information</u>

Data are used to determine the magnitude of the adverse healthcare-associated events and trends in the rates of these events among patients and healthcare personnel with similar risks or exposures.

The surveillance data are typically obtained by designated and trained staff, primarily registered nurses in infection control or occupational health or transfusion medicine laboratory personnel who routinely access administrative and clinical services reports and medical records, make observations during ward and patient rounds, and verbally discuss patients' conditions with direct caregivers. Persons with training in other healthcare disciplines such as medical technology and microbiology also perform surveillance. Information on antibiotic resistance of

clinical isolates and antimicrobial use is reported from the clinical laboratory and pharmacy, respectively. In most institutions, the data are recorded on hard-copy data collection forms and later entered into the NHSN web interface. However, roughly 16.5% of hospitals submit data electronically directly from a vendor system using Clinical Document Architecture (CDA).

Items of information to be collected include surveillance data related to various healthcare-associated adverse events and trends. Examples of these items are medical information and notes, medical records numbers, date of birth, gender, and biological specimen information. Personal identifying information is collected for one of two purposes. The information is used to either a) enumerate a specific event and minimize duplication (e.g., medical record number) and b) analyze risk factors related to the event data being collected (e.g., date of birth and gender). Data are reported to CDC and CDC aggregates the data for national surveillance and public health practice evaluation purposes.

An Assurance of Confidentiality is granted for all data collected under NHSN. Accordingly, "the voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d))." (Attachment H)

3. Use of Improved Information Technology and Burden Reduction

As stated in previous submissions to OMB, 100% of the data for the NHSN are collected via a secure Internet application. Only the minimum amount of information necessary for the data collection is being requested. Institutions that participate in NHSN are required to have a computer and Internet Service Provider (ISP), and they must provide the salaries of the data collectors and data entry personnel. These expenses would not exceed what is normally expended for a typical healthcare facility infection surveillance program. While the paper forms are provided for data collection, facilities are not required to use them for entry of data into NHSN.

Clinical Document Architecture (CDA) is a Health Level 7 (HL7) standard which provides a framework for formats of electronic documents. Currently, NHSN is able to accept data on central line-associated bloodstream infections (CLABSI), surgical site infections (SSI), catheter-associated urinary tract infections (CAUTI), central line insertion practices (CLIP), laboratory-identified (LabID) events, dialysis events and the pharmacy side of the antimicrobial use (AU) and resistance (AUR) module via CDA. CDA capabilities for the resistance (AR) side of the AUR module are expected to deploy in 2014.

4. Efforts to Identify Duplication and Use of Similar Information

NHSN is the only current national system that collects surveillance data on healthcareassociated infections, infection prevention process measure data, data on healthcare personnel safety measures such as blood and body fluid exposures and vaccination practices, and adverse events related to the transfusion of blood and blood products.

There are other organizations within the Department of Health and Human Services (HHS) (e.g., Patient Safety Task Force, the Health Resources and Services Administration, the Agency for Healthcare Research and Quality, the Centers for Medicare and Medicaid Services) that work to improve patient safety and healthcare outcomes. In many cases, these agencies use

the information generated from the NHSN to support their mission, and currently, the data collections do not overlap.

5. Impact on Small Businesses or Other Small Entities

There are several vendors, some of which may be considered small businesses, which sell data management tools with similar capabilities as NHSN. However, since NHSN is a voluntary system, facilities are free to choose a vendor product over the NHSN. The exception is in those states that have mandated the use of NHSN for meeting their public reporting laws and in facilities that participate in the CMS Hospital Inpatient Quality Reporting Program, the CMS Prospective Payment System (PPS) End-stage Renal Disease (ESRD) Quality Incentive Program, CMS Inpatient Rehabilitation Facility Quality Reporting Program, CMS Long Term Care Hospital Quality Reporting Program (LTCHQR) and the CMS PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program.

However, in order to minimize any negative impact on vendors (i.e., loss of potential market share), CDC actively assists all vendors with facility data submission into NHSN.

6. Consequences of Collecting the Information Less Frequently

Many adverse events associated with healthcare, such as HAIs, occur in both endemic and epidemic patterns. It is in the best interest of the healthcare institution to conduct routine prospective surveillance in an ongoing manner to identify trends in endemic rates as well as outbreaks so that potential problems may be identified in a timely manner and appropriate measures instituted to minimize the number of affected patients or healthcare personnel. Collecting the data sporadically or less often than required by NHSN could potentially place patients at risk. In addition, CMS and state mandates require monthly reporting of HAI data via NHSN.

7. Special Circumstances Relating to the Guidelines of 5 CFR 1320.5 <u>Reporting data more frequently than quarterly</u>

The healthcare institutions participating in NHSN are required to collect data in an ongoing manner and report them monthly to CDC. Such a schedule will not cause undue burden in most facilities, since data are usually collected daily or at least several times per week, and denominator data are tallied monthly. The data are usually entered into the computer at least monthly for a facility's analysis. Given these practices, it is advantageous to CDC to maintain a monthly reporting frequency. In NHSN, once the data are entered into the Internet-based application, they are transmitted electronically to CDC with no additional data preparation.

Generalizability of results

As of June 2013, there are over 12,000 healthcare facilities enrolled in NHSN. Of these, there are over 5,500 acute care facilities, 6,000 dialysis facilities, 540 long-term acute care facilities, 270 inpatient rehabilitation facilities, 150 long-term care facilities, and 270 ambulatory surgery facilities. The majority of these facilities are participating in CMS reporting programs for specific infection types. In 2011, the CMS Hospital Inpatient Quality Reporting Program began for all acute care facilities with intensive care units. Therefore, while not all acute care facilities are enrolled in NHSN, the NHSN data for central line-associated blood stream infections (CLABSI) and catheter-associated urinary tract infections (CAUTI) from intensive care units are considered to be generalizable to all acute care facilities with intensive care units. In 2012, CMS

ESRD Quality Incentive Program was implemented for all dialysis facilities, therefore dialysis event data are considered to be generalizable to all outpatient dialysis facilities. Furthermore, CLABSI and CAUTI data from long-term acute care facilities, and CAUTI data from inpatient rehabilitation facilities is considered generalizable to those facility and infection types as CMS reporting programs for those facility types went into effect in October 2012.

Further, because NHSN membership is now open to any healthcare facility and is increasingly being used to satisfy mandated reporting requirements at both the federal and state levels, we expect that over time the results will be more representative of all healthcare facility and infection types.

8. Comments in Response to the Federal Register Notice and Efforts to Consult Outside the Agency

A. A 60-Day Federal Register Notice was published in the *Federal Register* on 06/20/2013, Vol. 78, No. 119, pg. 37224 (Attachment B). One non-substantive comment was received.

B. The Healthcare Infection Control Practices Advisory Committee (HICPAC) provides advice and guidance to the CDC Director and the Director of NCEZID regarding strategies for surveillance, prevention, and control of adverse events associated with healthcare in the United States. Committee members represent experts in the field of infection control. They are kept abreast of NHSN methodologies and results and proposed studies related to the NHSN. The committee has the authority to make recommendations on the conduct of the surveillance systems and studies by DHQP.

Further, participating NHSN facilities are invited to make suggestions on how NHSN can help them more effectively use their own and national surveillance data. Many of the surveillance personnel in participating institutions are experts in the field of preventing adverse events such as hospital-associated infections and have extensive experience in the field. CDC personnel are available on a priority basis by e-mail to NHSN users. Member meetings for NHSN users are held each year in conjunction with annual professional meetings such as the International Conference of the Association for Professionals in Infection Control and Epidemiology (APIC) and the International Conference on Healthcare-Associated Infections.

In addition, DHQP actively interfaces with CMS and AHRQ as well as state health departments to ensure adequate but minimal data collection as well as effective data sharing mechanisms to meet the purposes and surveillance needs of each agency using NHSN to operationalize HAI reporting mandates.

9. Explanation of Any Payment or Gift to Respondents

No monetary incentive is provided to NHSN participants.

10. Assurance of Confidentiality Provided to Respondents

NHSN began as a voluntary surveillance system in 2005 and is managed by the Division of Healthcare Quality Promotion (DHQP) in the National Center for Emerging and Zoonotic Infectious Diseases. However, since its launch that year, NHSN increasingly has served as the operational system for compliance with mandatory healthcare-associated infection (HAI) reporting requirements established by states. As of June, 2013, 30 states and the District of Columbia have opted to use NHSN as the operational system for mandatory reporting by healthcare facilities in their jurisdictions, and additional states are expected to follow with similar use of NHSN for mandatory reporting purposes. In addition, CMS requires Medicare-eligible acute care hospitals, inpatient rehabilitation facilities, long-term acute care facilities, dialysis facilities, and oncology hospitals to report HAI data to CMS via NHSN as part of CMS quality improvement and reporting programs. Still, many healthcare facilities, even in states with mandatory reporting requirements, submit at least some HAI data to NHSN voluntarily. As a result, the HAI data reported to NHSN are a mix of data reported voluntarily and mandatorily. The previously amended NHSN Assurance of Confidentiality is intended to cover those data that are voluntarily provided by healthcare facilities to DHQP through the NHSN and not data that are either (1) mandated by state or federal laws, regulations, or other requirements, or (2) requested by state agencies for surveillance or prevention purposes (Attachment H). Collaborators at the participating institutions may publish data collected from their institutions and may identify themselves as NHSN participants.

For the participating healthcare institutions, data are collected in this system for the purposes of local surveillance and program evaluation. DHQP aggregates the data for national surveillance and public health practice evaluation purposes. No primary research will be conducted as part of this data collection effort and no patient consent forms will be used. Although this is not a research project, this Protocol was submitted for ethical review to the CDC Institutional Review Board (IRB) and was approved (Protocol #4062, exp. 05/18/05.) The most recent request for amendment and continuation was approved on 08/29/06 and expired on 05/18/07. Subsequently, in consultation with NCEZID senior staff, the program was advised that the activities of the NHSN are surveillance and evaluation of public health practice and that IRB review is no longer required, therefore the protocol has been closed (Attachment F).

10.1 <u>Privacy Impact Assessment Information</u>

The use of the NHSN is both voluntary and mandated. State legislatures have mandated the use of the NHSN for public reporting of healthcare-acquired infections by healthcare facilities in their state. The CDC Office of General Counsel has determined that the Privacy Act does not apply to this data collection.

While the Privacy Act is not applicable, in accordance with the stringent safeguarding that must be in place for 308(d) assurance of confidentiality protected projects, all the safeguarding measures described in previous Section A.10 are still in effect. These include: requiring the use of a digital certificate via CDC's Secure Data Network or use of a password issued via CDC's Secure Access Management System for access to the application; data encryption using Secure Socket Layer technology; and lastly, storage of data in password protected files on secure computers in locked, authorized-access-only rooms.

This data collection effort is consistent with the Privacy Rule of the Health Insurance Portability and Accountability Act (HIPAA), which expressly permits disclosures without individual authorization to public health authorities authorized by law to collect or receive the information for the purpose of preventing or controlling disease, injury, or disability, including but not limited to public health surveillance, investigation, and intervention.

The Office of the General Counsel (OGC) believes that NHSN, as it is currently being utilized by CDC, is not a Privacy Act system of records and provides case law to support this determination (Henke v. U.S. Department of Commerce and Fisher v. NIH). Specifically, the OGC stated that "The CDC NHSN system is similar to the computerized information in both the Henke and Fisher cases. While CDC has the capability to retrieve data by personal identifier,

CDC does not, as a matter of practice or policy, retrieve data in this way. Specifically, the primary practice and policy of CDC regarding NHSN data is to retrieve data by the name of the hospital or other non-personal identifier, not an individual patient, for surveillance and public health purposes. Furthermore, patient identifiers are not necessary for NHSN to operate, and CDC does not regularly or even frequently use patient names to obtain information about these individuals."

11. Justification for Sensitive Questions

The reporting of adverse events associated with healthcare can be sensitive unless the institution is assured that the data aggregating organization will provide security for the data and maintain the institution's confidentiality. As discussed in item A.10 above, NHSN is authorized to assure confidentiality to its participating individuals and institutions for voluntarily submitted data.

12. Estimates of Annualized Burden Hours and Costs

The tables below provide the burden hour and cost estimates for the proposed NHSN data collection tools. Incorporating all proposed revisions, the estimated burden for reporting reflects an increase of 542,123 hours and \$10,782,604 from the most recently-approved ICR in December, 2012. Detailed revisions of the previous burden tables are available in Attachments D-3 and D-4.

A. Estimates of Annualized Burden Hours

Burden estimates were derived using the estimated number of facilities participating in NHSN for each facility type and form. State and Federal HAI reporting mandates were taken into account when estimating the number of facilities (respondents) and the annual number of responses per facility. Subject matter expert and user feedback was used to determine the time burden of completing each data collection form. NHSN has integrated legacy OMB-approved patient and healthcare personnel safety surveillance systems, National Nosocomial Infection Surveillance (NNIS) system, the National Surveillance System for Healthcare Workers (NaSH), and the Dialysis Surveillance Network (DSN), which served as successful pilot tests of the NHSN surveillance methods.

	Form		No. of	No. of Responses per	Avg. Burden per Response	Total Burden
Type of Respondent	Number	Form Name	Respondents	Respondent	(Hours)	(Hours)
Registered Nurse						
(Infection Preventionist)	57.100	NHSN Registration Form	2,000	1	5/60	167
Registered Nurse					10/00	
(Infection Preventionist)	57.101	Facility Contact Information	2,000	1	10/60	333
Registered Nurse			6.000		20/20	2.000
(Infection Preventionist)	57.103	Patient Safety ComponentAnnual Hospital Survey	6,000	1	30/60	3,000
Registered Nurse			6.000		= 100	
(Infection Preventionist)	57.105	Group Contact Information	6,000	1	5/60	500
Registered Nurse	100		6.000	10	2=/22	12.000
(Infection Preventionist)	57.106	Patient Safety Monthly Reporting Plan	6,000	12	35/60	42,000
Registered Nurse	== 100		6 000	20	22/60	115 000
(Infection Preventionist)	57.108	Primary Bloodstream Infection (BSI)	6,000	36	32/60	115,200
Registered Nurse			C 000	70	20/00	200,000
(Infection Preventionist)	57.111	Pneumonia (PNEU)	6,000	72	29/60	208,800
Registered Nurse	57.112	Mandilaton Associated France	C 000	144	22/00	210,000
(Infection Preventionist)		Ventilator-Associated Event	6,000	144	22/60	316,800
Infection Preventionist	57.114	Urinary Tract Infection (UTI)	6,000	27	29/60	78,300
Staff RN	57.116	Denominators for Neonatal Intensive Care Unit (NICU)	6,000	9	3	162,000
		Denominators for Specialty Care Area (SCA)/Oncology	C 000	0	_	270.000
Staff RN	57.117	(ONC)	6,000	9	5	270,000
Staff RN		Denominators for Intensive Care Unit (ICU)/Other locations	C 000	54	_	1 000 000
	57.118	(not NICU or SCA)	6,000	54	5	1,620,000
Registered Nurse (Infection Preventionist)	57.120	Surgical Site Infection (SSI)	6,000	36	29/60	104,400
Staff RN	57.120	Denominator for Procedure	6,000	540	5/60	270,000
	57.121	Antimicrobial Use and Resistance (AUR)-Microbiology Data	0,000	540	3/00	270,000
Laboratory Technician	57.123	Electronic Upload Specification Tables	6,000	12	5/60	6,000
	57.125	Antimicrobial Use and Resistance (AUR)-Pharmacy Data	0,000	12	5/00	0,000
Pharmacy Technician	57.124	Electronic Upload Specification Tables	6,000	12	5/60	6,000
Registered Nurse	57.124		0,000	14	5,00	0,000
(Infection Preventionist)	57.125	Central Line Insertion Practices Adherence Monitoring	1,000	100	5/60	8,333
Registered Nurse	07,120		1,000	100	0,00	0,000
(Infection Preventionist)	57.126	MDRO or CDI Infection Form	6,000	72	29/60	208,800

Estimated annual burden, in number of hours, by NHSN data collection form.^a

	Form		No. of	No. of Responses per	Avg. Burden per Response	Total Burden
Type of Respondent	Number	Form Name	Respondents	Respondent	(Hours)	(Hours)
Registered Nurse	F7 107	MDRO and CDI Prevention Process and Outcome Measures	C 000	24	12/00	20.000
(Infection Preventionist)	57.127	Monthly Monitoring	6,000	24	12/60	28,800
Registered Nurse	57.128	Laboratory identified MDDO or CDI Event	6,000	240	15/00	
(Infection Preventionist) Registered Nurse	57.128	Laboratory-identified MDRO or CDI Event	6,000	240	15/60	360,000
(Infection Preventionist)	57.130	Vaccination Monthly Monitoring Form–Summary Method	100	5	14	7,000
Registered Nurse	57.150	vacchation monany montoring rorm bannary method	100	5	17	7,000
(Infection Preventionist)	57.131	Vaccination Monthly Monitoring Form–Patient-Level Method	100	5	2	1,000
Registered Nurse	0,101	vacemation monany monitoring round ratent Devermentod	100			1,000
(Infection Preventionist)	57.133	Patient Vaccination	100	250	10/60	4,167
Registered Nurse		Long-Term Care Facility Component – Annual Facility				.,
(Infection Preventionist)	57.137	Survey	250	1	45/60	188
Registered Nurse						
(Infection Preventionist)	57.138	Laboratory-identified MDRO or CDI Event for LTCF	250	8	15/60	500
Registered Nurse		MDRO and CDI Prevention Process Measures Monthly				
(Infection Preventionist)	57.139	Monitoring for LTCF	250	12	5/60	250
Registered Nurse						
(Infection Preventionist)	57.140	Urinary Tract Infection (UTI) for LTCF	250	9	27/60	1,013
Registered Nurse						
(Infection Preventionist)	57.141	Monthly Reporting Plan for LTCF	250	12	5/60	250
Registered Nurse						
(Infection Preventionist)	57.142	Denominators for LTCF Locations	250	12	3	9,000
Registered Nurse						
(Infection Preventionist)	57.143	Prevention Process Measures Monthly Monitoring for LTCF	250	12	5/60	250
Registered Nurse						
(Infection Preventionist)	57.150	LTAC Annual Survey	400	1	30/60	200
Registered Nurse						
(Infection Preventionist)	57.151	Rehab Annual Survey	1,000	1	25/60	417
Occupational Health		Healthcare Personnel Safety Component Annual Facility				
RN/Specialist	57.200	Survey	50	1	8	400
Occupational Health						
RN/Specialist	57.203	Healthcare Personnel Safety Monthly Reporting Plan	50	9	10/60	75
Occupational Health						0.000
RN/Specialist	57.204	Healthcare Worker Demographic Data	50	200	20/60	3,333
Occupational Health	57.205	Exposure to Blood/Body Fluids	50	50	1	2,500

	Form		No. of	No. of Responses per	Avg. Burden per Response	Total Burden
Type of Respondent	Number	Form Name	Respondents	Respondent	(Hours)	(Hours)
RN/Specialist						
Occupational Health						
RN/Specialist	57.206	Healthcare Worker Prophylaxis/Treatment	50	30	15/60	375
Laboratory Technician	57.207	Follow-Up Laboratory Testing	50	50	15/60	625
Occupational Health						
RN/Specialist	57.210	Healthcare Worker Prophylaxis/Treatment-Influenza	50	50	10/60	417
Medical/Clinical						
Laboratory Technologist	57.300	Hemovigilance Module Annual Survey	500	1	2	1,000
Medical/Clinical						
Laboratory Technologist	57.301	Hemovigilance Module Monthly Reporting Plan	500	12	1/60	100
Medical/Clinical						
Laboratory Technologist	57.303	Hemovigilance Module Monthly Reporting Denominators	500	12	1	6,000
Medical/Clinical						
Laboratory Technologist	57.304	Hemovigilance Adverse Reaction	500	48	15/60	6,000
Medical/Clinical						
Laboratory Technologist	57.305	Hemovigilance Incident	500	12	10/60	1,000
Staff RN	57.400	Outpatient Procedure Component - Annual Facility Survey	5,000	1	5/60	417
Staff RN	57.401	Outpatient Procedure Component - Monthly Reporting Plan	5,000	12	15/60	15,000
Staff RN	57.402	Outpatient Procedure Component Event	5,000	25	40/60	83,333
		Outpatient Procedure Component - Monthly Denominators				
Staff RN	57.403	and Summary	5,000	12	40/60	40,000
Registered Nurse			,			,
(Infection Preventionist)	57.500	Outpatient Dialysis Center Practices Survey	6,000	1	1.75	10,500
Staff RN	57.501	Dialysis Monthly Reporting Plan	6,000	12	5/60	6,000
Staff RN	57.502	Dialysis Event	6,000	60	13/60	78,000
Staff RN	57.503	Denominator for Outpatient Dialysis	6,000	12	6/60	7,200
		Prevention Process Measures Monthly Monitoring for	-,			,
Staff RN	57.504	Dialysis	600	12	30/60	3,600
Staff RN	57.505	Dialysis Patient Influenza Vaccination	250	75	10/60	3,125
Staff RN	57.506	Dialysis Patient Influenza Vaccination Denominator	250	5	10/60	208
Epidemiologist	57.600	State Health Department Validation Record	152	50	15/60	1,900
			Total Estimated Annual Burden (Hours) 4,104			

^a Columns may not total due to rounding.

B. Estimates of Annualized Costs

The average salary of the professional discipline that is expected to perform surveillance has been used in the calculations of burden and is based on data from the Department of Labor, Bureau of Labor & Statistics, 2012. Those most likely to complete this surveillance are health practitioners at a mid (50th percentile average wage) or senior (75th percentile average wage) level. Those personnel and their estimated hourly wages are shown below.

2012 Department Of Labor Salary Estimates						
Professional Labor Category	Percentile	Hourly Wage				
Occupational Health Nurse (Occ Health RN)	75th	\$39.85				
Infection Preventionist RN	75th	\$37.84				
Clinical Laboratory Technologist	75th	\$33.14				
Pharmacy Technician	50th	\$14.10				
Staff RN	50th	\$31.48				
Laboratory Technician	50th	\$17.90				

http://www.bls.gov/bls/blswage.htm#National Accessed: 5/23/2013

13. Estimates of Other Total Annual Cost Burden to Respondents or Record Keepers

There is no change in the estimates of annual cost burden to respondents. Capital and start-up cost: Healthcare institutions participating in the NHSN are responsible for choosing the specific computer brand and model to purchase. Minimum system requirements are as follows: 3 GHz processor – Intel Pentium IV or AMD K6/Athlon/Duron family, or compatible processor, 512 MB of RAM, sound card, speakers or headphones, CD-ROM or DVD drive, hard disk minimum 40 GB; Microsoft Internet Explorer 7 or higher, 17" Super VGA (800 X 600) or higher resolution video adaptor and monitor, Windows XP, Windows 2000, Windows Vista, or Windows 7 Operating system, laser printer, and high-speed Internet access >200 Kbs (e.g., T1, cable, DSL or ADSL); e-mail account. It is expected that most institutions will have met or exceeded these recommendations for other business purposes but if purchasing equipment for the first time, they will incur a one-time startup cost of approximately \$1200. Recurring costs: Healthcare facilities participating in NHSN must have access to high-speed Internet, which most have for other business purposes. No other recurring costs are anticipated.

Estimated national annual cost burden of data conection by whish data conection form.						
			Total		Total	
	Form		Burden	Hourly Wage	Respondent	
Respondents	Number	Form Name	(Hours)	Rate	Costs	
Registered Nurse						
(Infection Preventionist)	57.100	NHSN Registration Form	167	\$37.84	\$6,307	
Registered Nurse						
(Infection Preventionist)	57.101	Facility Contact Information	333	\$37.84	\$12,613	
Registered Nurse		Patient Safety ComponentAnnual Hospital				
(Infection Preventionist)	57.103	Survey	3,000	\$37.84	\$113,520	
Registered Nurse						
(Infection Preventionist)	57.105	Group Contact Information	500	\$37.84	\$18,920	
Registered Nurse	57.106	Patient Safety Monthly Reporting Plan	42,000	\$37.84	\$1,589,280	

Estimated national annual cost burden of data collection by NHSN data collection form.^a

Devendente	Form	Pour Norma	Total Burden	Hourly Wage	Total Respondent
Respondents (Infaction Dreventionist)	Number	Form Name	(Hours)	Rate	Costs
(Infection Preventionist)					
Registered Nurse	F7 100	Drimour Disadetuser Infection (DCI)	115 200	¢07.04	¢4 350 100
(Infection Preventionist)	57.108	Primary Bloodstream Infection (BSI)	115,200	\$37.84	\$4,359,168
Registered Nurse	F7 111		200.000	¢07.04	¢7,000,000
(Infection Preventionist)	57.111	Pneumonia (PNEU)	208,800	\$37.84	\$7,900,992
Registered Nurse	57.112	Ventilator-Associated Event	210,000	¢27.04	¢11 007 710
(Infection Preventionist)	F7 114	Liner Treat Infection (LITI)	316,800 78,300	\$37.84 \$37.84	\$11,987,712 \$2,962,872
Infection Preventionist	57.114	Urinary Tract Infection (UTI) Denominators for Neonatal Intensive Care	/0,300	\$37.04	\$2,902,072
Staff RN	F7 116		162,000	\$31.48	¢F 000 760
Stall KIN	57.116	Unit (NICU) Denominators for Specialty Care Area	162,000	\$31.40	\$5,099,760
Staff RN	57.117	(SCA)/Oncology (ONC)	270,000	\$31.48	\$8,499,600
	57,117	Denominators for Intensive Care Unit	270,000	\$51.40	\$0,499,000
Staff RN	57.118	(ICU)/Other locations (not NICU or SCA)	1 620 000	\$31.48	\$50.007.600
Registered Nurse	57,110	(ICO)/Other locations (not NICO of SCA)	1,620,000	\$51.40	\$50,997,600
(Infection Preventionist)	57.120	Surgical Site Infection (SSI)	104,400	\$37.84	\$3,950,496
Staff RN	57.120	Denominator for Procedure	270,000	\$37.64	\$8,499,600
	57.121	Antimicrobial Use and Resistance (AUR)-	270,000	\$51.40	\$0,499,000
		Microbiology Data Electronic Upload			
Laboratory Technician	57.123	Specification Tables	6,000	\$17.90	\$107,400
	57.125	Antimicrobial Use and Resistance (AUR)-	0,000	\$17.50	\$107,400
		Pharmacy Data Electronic Upload			
Pharmacy Technician	57.124	Specification Tables	6,000	\$14.10	\$84,600
Registered Nurse	57.124	Central Line Insertion Practices Adherence	0,000	\$14.10	404,000
(Infection Preventionist)	57.125	Monitoring	8,333	\$37.84	\$315,333
Registered Nurse	57,125	Wolmoning	0,000	φ <u></u> σ7.04	ψ010,000
(Infection Preventionist)	57.126	MDRO or CDI Infection Form	208,800	\$37.84	\$7,900,992
Registered Nurse	5/1120	MDRO and CDI Prevention Process and	200,000	<i>\$67.61</i>	\$7,500,552
(Infection Preventionist)	57.127	Outcome Measures Monthly Monitoring	28,800	\$37.84	\$1,089,792
Registered Nurse				40.00	4_,000,00
(Infection Preventionist)	57.128	Laboratory-identified MDRO or CDI Event	360,000	\$37.84	\$13,622,400
Registered Nurse		Vaccination Monthly Monitoring Form–			
(Infection Preventionist)	57.130	Summary Method	7,000	\$37.84	\$264,880
Registered Nurse		Vaccination Monthly Monitoring Form–	,		
(Infection Preventionist)	57.131	Patient-Level Method	1,000	\$37.84	\$37,840
Registered Nurse			,		. ,
(Infection Preventionist)	57.133	Patient Vaccination	4,167	\$37.84	\$157,667
Registered Nurse		Long-Term Care Facility Component –			
(Infection Preventionist)	57.137	Annual Facility Survey	188	\$37.84	\$7,095
Registered Nurse		Laboratory-identified MDRO or CDI Event			
(Infection Preventionist)	57.138	for LTCF	500	\$37.84	\$18,920
Registered Nurse		MDRO and CDI Prevention Process			
(Infection Preventionist)	57.139	Measures Monthly Monitoring for LTCF	250	\$37.84	\$9,460
Registered Nurse					
(Infection Preventionist)	57.140	Urinary Tract Infection (UTI) for LTCF	1,013	\$37.84	\$38,313
Registered Nurse					
(Infection Preventionist)	57.141	Monthly Reporting Plan for LTCF	250	\$37.84	\$9,460
Registered Nurse					
(Infection Preventionist)	57.142	Denominators for LTCF Locations	9,000	\$37.84	\$340,560
Registered Nurse		Prevention Process Measures Monthly			
(Infection Preventionist)	57.143	Monitoring for LTCF	250	\$37.84	\$9,460
Registered Nurse	57.150	LTAC Annual Survey	200	\$37.84	\$7,568

Respondents	Form Number	Form Name	Total Burden (Hours)	Hourly Wage Rate	Total Respondent Costs
(Infection Preventionist)	Rumber	Torm Hume	(110013)	Kutt	00313
Registered Nurse					
(Infection Preventionist)	57.151	Rehab Annual Survey	417	\$37.84	\$15,767
Occupational Health		Healthcare Personnel Safety Component			
RN/Specialist	57.200	Annual Facility Survey	400	\$39.85	\$15,940
Occupational Health		Healthcare Personnel Safety Monthly			
RN/Specialist	57.203	Reporting Plan	75	\$39.85	\$2,989
Occupational Health					
RN/Specialist	57.204	Healthcare Worker Demographic Data	3,333	\$39.85	\$132,833
Occupational Health					
RN/Specialist	57.205	Exposure to Blood/Body Fluids	2,500	\$39.85	\$99,625
Occupational Health					
RN/Specialist	57.206	Healthcare Worker Prophylaxis/Treatment	375	\$39.85	\$14,944
Laboratory Technician	57.207	Follow-Up Laboratory Testing	625	\$17.90	\$11,188
Occupational Health		Healthcare Worker Prophylaxis/Treatment-			
RN/Specialist	57.210	Influenza	417	\$39.85	\$16,604
Medical/Clinical					
Laboratory Technologist	57.300	Hemovigilance Module Annual Survey	1,000	\$33.14	\$33,140
Medical/Clinical		Hemovigilance Module Monthly Reporting			
Laboratory Technologist	57.301	Plan	100	\$33.14	\$3,314
Medical/Clinical		Hemovigilance Module Monthly Reporting			
Laboratory Technologist	57.303	Denominators	6,000	\$33.14	\$198,840
Medical/Clinical					
Laboratory Technologist	57.304	Hemovigilance Adverse Reaction	6,000	\$33.14	\$198,840
Medical/Clinical					
Laboratory Technologist	57.305	Hemovigilance Incident	1,000	\$33.14	\$33,140
		Outpatient Procedure Component - Annual			
Staff RN	57.400	Facility Survey	417	\$31.48	\$13,117
		Outpatient Procedure Component - Monthly			
Staff RN	57.401	Reporting Plan	15,000	\$31.48	\$472,200
Staff RN	57.402	Outpatient Procedure Component Event	83,333	\$31.48	\$2,623,333
		Outpatient Procedure Component - Monthly			
Staff RN	57.403	Denominators and Summary	40,000	\$31.48	\$1,259,200
Registered Nurse					
(Infection Preventionist)	57.500	Outpatient Dialysis Center Practices Survey	10,500	\$37.84	\$397,320
Staff RN	57.501	Dialysis Monthly Reporting Plan	6,000	\$31.48	\$188,880
Staff RN	57.502	Dialysis Event	78,000	\$31.48	\$2,455,440
Staff RN	57.503	Denominator for Outpatient Dialysis	7,200	\$31.48	\$226,656
		Prevention Process Measures Monthly			
Staff RN	57.504	Monitoring for Dialysis	3,600	\$31.48	\$113,328
Staff RN	57.505	Dialysis Patient Influenza Vaccination	3,125	\$31.48	\$98,375
		Dialysis Patient Influenza Vaccination			
Staff RN	57.506	Denominator	208	\$31.48	\$6,558
Epidemiologist	57.600	State Health Department Validation Record	1,900	\$31.38	\$59,622
			Total Est	timated Cost	\$138,711,373

^a Columns and rows may not total due to rounding.

14. Annualized Cost to the Government

A total of 83 FTE/contractor personnel are actively involved in the enhancement and maintenance of the NHSN. The estimated cost to the government of this OMB revision of NHSN

is based on expenses incurred in the following categories: personnel and programming contracts. The items and their costs relevant to the proposed modifications to NHSN are shown in the table below. The total cost to the government in 2014 is estimated to be **\$11,912,686**.

Expense Item	Description		Estimated Annual Cost
			FTE annual
Personnel	The personnel categories and th are as follows:	compensation in FY 2014 will be \$4,938,341.	
	Supervisory. Medical Officer	2	
	Medical Epidemiologist	4.5	
	Statistician	2	
	Epidemiologist	7	
	Nurse Epidemiologist	2	
	Systems Analyst	2	
	Public Health Analyst	1	
	Computer Scientist	2	
Programming	Design, develop, and deploy en	hancements to NHSN	\$6,974,345
contracts			
Total			\$11,912,686

NHSN Estimated Annual Cost to the Government

15. Explanation for Program Changes or Adjustments

Thirty-two data collection tools previously approved under OMB No. 0920-0666 have been revised in this revision request. In addition, nine forms are being added and one form is being removed from this package. A brief summary of the proposed program changes is provided below. An extensive explanation of the proposed program changes are provided in Attachment D-1. An itemized list of changes proposed to each data collection form and their justifications are provided in Attachment D-2. For additional information, surveillance protocols and completion instructions for each data collection tool can be found in Attachment G.

In summary, the proposed revisions to the information collection tools in NHSN include the following program changes:

- **1)** There are multiple updates and clarifications made to 32 of the approved data collection tools resulting in both increases and decreases to burden estimates.
- 2) A new component will be launched within NHSN that will be specifically tailored to dialysis facilities. Over the past year, the number of outpatient dialysis facilities participating in NHSN has increased exponentially. As of May 13, 2013, there were approximately 5,700 outpatient dialysis facilities enrolled in NHSN, accounting for about 50% of all facilities in NHSN. Historically, dialysis surveillance has been a module within the Patient Safety Component along with modules for surveillance in inpatient healthcare settings. However, the outpatient dialysis setting is very different than inpatient healthcare settings, and the type of NHSN user representing outpatient dialysis facilities is different than most NHSN users representing inpatient healthcare settings. Two goals are achieved by moving dialysis to its own NHSN component:

- Tailor the NHSN user interface for dialysis users to simplify their data entry and analysis processes.
- Provide options for expanding the Dialysis Component in the future to include dialysis surveillance in settings other than outpatient facilities (e.g., home hemodialysis, peritoneal dialysis, etc.).

With this new component, the three previously approved dialysis forms have been revised and renumbered. There have also been four new forms added for this component.

3) The NHSN Outpatient Procedure Component (OPC) was developed amid increasing interest in the public health impact of infections and other outcomes related to outpatient procedures that are performed in settings such as Ambulatory Surgery Centers (ASCs), Hospital Outpatient Departments (HOPDs), and physicians' offices. Though outbreak investigations by state health departments and the Centers for Disease Control and Prevention (CDC) have shown that serious adverse outcomes of outpatient procedures do occur, there are no national estimates of the number of healthcare associated infections (HAIs) or other adverse outcomes originating in ASCs or HOPDs. As of 2010, there were more than 5,300 Medicare-certified ASCs in the U.S., which represents an approximate 50% increase since 2002. Also, a majority (89%) of acute care hospitals provided outpatient surgery services in 2009

(<u>http://www.medpac.gov/chapters/Jun10DataBookSec8.pdf</u>, chart 8-8 and 8-15).

The OPC provides surveillance methods to identify and track process and outcomes measures of outpatient procedures that are performed in freestanding ASCs. It is anticipated that some or all event types of the OPC may also be available for future use in HOPDs. However, more work is needed to address how to implement the OPC without requiring duplicative or burdensome new reporting requirements in addition to the surgical site infection (SSI) and CMS, Hospital Outpatient Quality Reporting measures that are already being reported by HOPDs.

Three event types are included in the NHSN Outpatient Procedure Component (OPC) and planned for implementation beginning in 2014: Same Day Outcome Measures, Prophylactic Intravenous (IV) Antibiotic Timing, and Surgical Site Infection (SSI).

4) The breadth of organism susceptibility data required on all of the healthcare-associated infection (HAI) report forms (i.e., BSI, UTI, SSI, PNEU (VAP and VAE), DE, LTUTI, and MDRO Infection Surveillance) has been reduced for the purposes of streamlining, simplification, and removing undue burden where possible. Of those that are tracked and reported, the remaining required organisms and antimicrobials are among the most common to cause HAIs reported into NHSN. As these organisms cause the most serious resistant infections, it is important to infection prevention and control that these requirements remain. The specific reductions include: removal of "Intermediate" as a susceptibility result category for Colistin/Polymyxin B to match standardized test results; two less commonly reported pathogens were completely removed - Serratia marcescens and Stenotrophomonas maltophilia; seven antibiotics of lower concern were removed for Enterococcus reporting; antibiogram requirements for Enterococcus will be limited to the

most common and serious species - Enterococcus faecalis, Enterococcus faecium and Enterococcus spp. not identified to the species level; two antibiotics of lower concern were removed for Staphylococcus aureus; one antibiotic of lower concern was removed for the Enterobacteriaceae organisms (E.coli, Enterobacter, Klebsiella); and the antibiogram requirements for Klebsiella will be limited to the most common and serious -Klebsiella pneumonia and Klebsiella oxytoca.

- **5)** Significant changes were made to the NHSN Biovigilance Component as a result of a subject matter expert and stakeholder working groups conducted in Spring 2013. The changes made to the six Hemovigilance forms in this PRA package are aimed at decreasing the burden and increasing the participation for this component of NHSN. One form, 57.302- Hemovigilance Module Monthly Incident Summary, was removed from this package as it was determined that this form should no longer be required per NHSN Biovigilance surveillance protocol. All five remaining Hemovigilance forms underwent significant revisions.
- 6) A new form (57.600 State Health Department Validation Record) represents a collection of aggregate validation results that will be collected by state health departments when conducting facility-level validation of NHSN healthcare-associated infection (HAI) data within their jurisdictions using the CDC/NHSN Validation Guidance and Toolkits. Validation of NHSN data is important to state health departments as the data are used for facility reimbursement, policy making, and consumer information. The NHSN application will be built to accept these data entries and will maintain a dataset that will provide state health departments with calculations of sensitivity, specificity, and accuracy of the NHSN facility-reported HAI data. This form allows state health departments to collect validation data for any of the possible mandated HAIs and for any year of data that is validated. The purpose of state health departments entering these data into NHSN is to maintain high-level security of facility-specific validation results. The data collection form and the calculations and aggregations of entered data is being provided to the state health departments to maintain standardized, comparable, and reliable validation results. This also serves to ease the burden off of state health departments for the independent creation of data collection forms, a system database, and appropriate metric calculations.

16. Plans for Tabulation and Publication and Project Time Schedule

NHSN is an ongoing data collection system and as such, does not have an annual timeline. The data are reported on a continuous basis by participating institutions and aggregated by CDC into a national database that is analyzed for two main purposes: to describe the epidemiology of healthcare-associated adverse events, and to provide comparative data for populations with similar risks. Comparative data can be used by participating and also by non-participating healthcare institutions that collect their data using NHSN methodology.

The reporting institutions will be able to access their own data at any time and analyze them through the internet interface. Reports containing aggregated data will be produced annually and posted on the NHSN website, which is <u>http://www.cdc.gov/nhsn</u>. The report is also published annually in a scientific journal to make NHSN data widely available. Other in-depth analysis of data from the NHSN will be published in peer-reviewed journals, and presented at

scientific and professional meetings. The proposed modifications to NHSN will not alter the plans for tabulation, publication, nor the time schedule.

- **17. Reason(s) Display of OMB Expiration Date is Inappropriate** The display of the OMB expiration date is not inappropriate.
- **18. Exceptions to Certification for Paperwork Reduction Act Submissions** There are no exceptions to the certification.