

National Institutes of Health



NIH X12 194 Implementation Guide For the Streamlined Non-Competing Award Process

Version 1.0

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1 Purpose and Business Overview

1.1 Document Purpose

The purpose of the “NIH X12 194 Implementation Guide for the Streamlined Non-competing Award Process (SNAP)” is to provide standardized data requirements and content to all users interested in submitting SNAP data to the National Institutes of Health (NIH) via the X12 194 (Grant or Assistance Application) transaction set. The guide provides a detailed explanation of the transaction set by defining uniform data content and identifying valid code tables. This will aid users in the successful encoding of SNAP data from a proprietary format to the X12 194 standards required by NIH.

Expected users of this implementation guide include NIH grantee organizations and third party vendors that conduct business with NIH on behalf of a grantee organization (i.e., grantee organization agents).

1.2 Version and Release

The “NIH X12 194 Implementation Guide for the Streamlined Non-competing Award Process” is based on the Accredited Standards Committee (ASC) X12 standards, approved for publication in December of 1997, referred to as Version 4 Release 1 (004010).

1.3 Business Usage and Definition

NIH has deployed a pilot EDI system to receive and validate SNAP data. Grantee organizations (or their agents) use a subset of the 194 to encode SNAP data for transmission to this pilot system.

The NIH SNAP/EDI pilot system is being deployed as a phased implementation. Phase two, for which this manual is written, accepts all the Public Health Service (PHS) 2590 application kit pages that apply to SNAP:

- the Face Page, except requested costs (Form Page 1),
- the Progress Report Summary (Form Page 5),
- the Checklist (Form Page 6), and
- the Personnel Report, name and annual percent effort only (Form Page 7).

In addition, the NIH SNAP/EDI pilot accepts identification of:

- active *other support* of key personnel,
- significant rebudgeting of funds,
- changes in the level of effort for key personnel,
- unobligated balance, and
- changes in the project abstract.

1.4 References

1. U.S. Department of Health and Human Services, Public Health Service, Application for Continuation of a Grant (PHS 2590).” Rev. 4/98. OMB No. 0925-0001. Form approved through 02/28/2001.
2. “ASC X12 194 Transaction Set. Federal Implementation Conventions.” Version 004010. September 1998.

1.5 Terms and Abbreviations

194	X12 Grant or Assistance Application
2590	Application for a Continuation of a Grant
AO	Administrative Officer
ASC	Accredited Standards Committee
DOB	Date of Birth
DUNS	Data Universal Numbering System
EDI	Electronic Data Interchange
EIN	Entity Identification Number
GUIDe	Government User Identifier
IACUC	Institutional Animal Care and Use Committee
IC	Implementation Convention
IPF	Institutional Profile
IRB	Institutional Review Board
NIH	National Institutes of Health
OS	Other Support
PHS	Public Health Service
PI	Principal Investigator
PPF	Professional Profile
SNAP	Streamlined Non-competing Award Process
SO	Signing Official
SSN	Social Security Number

1.6 Organization of Document

This document, the “NIH X12 194 Implementation Guide for the Streamlined Non-competing Award Process”, contains three major sections. Section 1 introduces the manual. Section 2 provides a data overview, and section 3 presents the implementation guidelines for the 194 transaction set. This document also contains one appendix, which provides a sample PHS 2590 application and associated X12 194 transaction set.

1.7 How to Use This Document

This manual is written for the technical user who understands EDI terms and concepts. It cannot be used as a standalone document; it must be used in conjunction with the PHS 2590 Application Kit [1], and the 194 Federal Implementation Conventions (ICs) [2].

This document presents, in tabular form, the 194 data segments used in phase two of the NIH SNAP/EDI pilot. Each table contains the complete set of data elements comprising the segment, as well as all data codes and qualifiers supported by NIH. Each table also contains any implementation notes specific to NIH requirements. NIH-specific implementation notes are italicized.

This guide specifies the usage for each data segment and data element applicable to phase two of the NIH SNAP/EDI pilot. The definitions for the usage codes are provided below.

Usage	Expansion	Meaning
R	Required	This item must be used to be compliant with this guide.
O	Optional	The presence of this item is at the option of the sender.
C	Conditional	If the first element specified in the condition is present, then all other elements must be present.
N/U	Not Used	This item should not be used when complying with this guide. If a data segment or element labeled as N/U is received in a transaction, the data is ignored.

1.8 Respondent Burden

This information collection activity is linked to the *U.S. Department of Health and Human Services, Public Health Service, Grant Application (PHS 2590, Rev. 5/95)*. The PHS 2590 form is approved through 02/28/2001; OMB No. 0925-0001.

The Public Health Service (PHS) estimates that it will take approximately 20 hours to complete this application for a regular research project grant. Items such as human

subjects and vertebrate animals are cleared and accounted for separately, and are not part of the time estimate. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. If you have any comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, send comments to: NIH, Project Clearance office, 6701 Rockledge Drive, MSC 7730, Bethesda, MD 20892-7730, ATTN: PRA (0925-0001). **Do not send applications to this address.**

2 Data Overview

2.1 Information Flows

The transmission of SNAP data to NIH takes place as shown:

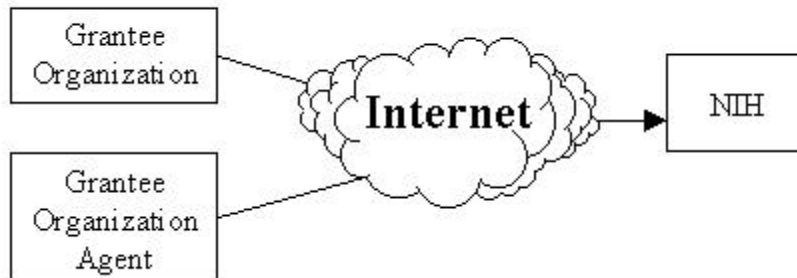


Figure 1. Data Stream Data Flow

2.2 Data Usage by Business Usage

The X12 194 is divided into two tables: Header and Detail.

- Table 1, the Header level, provides administrative data pertaining to the application, including information about the administrative and signing officials, and information about the applicant organization.
- Table 2, the Detail level, provides information pertaining to project dates, personnel, human subjects, vertebrate animals, and the progress report.

2.2.1 SNAP HL Level Codes

When specifying SNAP data in Table 2, HL loops are used to define specific threads of information. Each HL loop is identified by an HL level code. This guide recognizes three HL level codes: Project (PC), Key Person (26), and Other Support (OS).

1. Project: This HL loop is used to provide project-related information, including dates, performance sites, information on human subjects and vertebrate animals, and the progress report.
2. Key Person: This HL loop is used to identify information about a key person.
3. Other Support: This HL loop is used to identify the Other Support associated with a key person, including other support dates, sources, percent effort, and description of the overlap. One iteration of this loop is required per Other Support project (changes in active support only are to be reported).

X12 HL loop types are hierarchical in structure. The following diagram depicts the relationships between the three HL loop types supported in phase two of the NIH pilot.

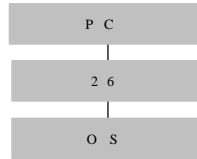


Figure 2-2. HL Loop Type Hierarchy

Within each HL loop type, only certain segments can be specified. The following table lists the HL loops types supported by the NIH SNAP/EDI pilot, and, for each HL loop type, which segments can be used.

194 Segment	PC	26	OS
QTY		✓	
DTM	✓		
PAM	✓		✓
NX1			
YNQ	✓		
N9/L11/MTX	✓		
INX/K3	✓		
PPL/PD/PDD	✓		
LX/NM1-N4	✓	✓	✓
PER		✓	
DMG		✓	
EMS		✓	
N9/MTX	✓	✓	✓

Table 2-1. HL Loop Segment Usage

2.3 Data/Transaction Set Model with Usage Matrix

The following matrix identifies the PHS 2590 items supported in phase two of the NIH SNAP/EDI pilot. The matrix correlates 2590 items with 194 data elements and 194 codes. The 194 codes are specified in parentheses.

Page	2590 Item	Item Definition	194 Reference
A	Grant Number Non-competitive Renewal	Identify as SNAP Grant number assigned by NIH (do not include dashes)	1/BGN07/020 (6N) 1/N901/060 (CT) 1/N902/060
A	Total Project Period, From	Estimated start date	2/DTM01/050 (193) 2/DTM02/050
A	Total Project Period, Through	Estimated end date	2/DTM01/050 (194) 2/DTM02/050
A	Total Project Period, Through	Duration of project	2/PAM01/060 (A3) 2/PAM02/060 2/PAM03-1/060 (MO)
A	Requested Budget Period, From	Budget period start date	2/PD01/190 (CC) 2/PD02/190
A	Requested Budget Period, Through	Budget period length	2/PD07/190 (38) 2/PDD01/200
A.1	Title of Project	Project title	1/N901/060 (4W) 1/MTX02/080
A.2a	Principal Investigator (PI)	Last name First name Middle name Name prefix Name suffix PI address PI city PI state PI zip code Government User ID	2/NM101/340 (9P) 2/NM103/340 2/NM104/340 2/NM105/340 2/NM106/340 2/NM107/340 2/N301/360 2/N302/360 2/N401/370 2/N402/370 2/N403/370 2/N901/400 (JD) 2/N902/400
A.2b	PI Email Address	PI email address	2/PER07/375 (EM) 2/PER08/375
A.2c	PI Department	Department of PI	2/N901/400 (19) 2/N907-01/400 (DP) 2/N907-02/400
A.2d	PI Major Subdivision	Major subdivision of PI	2/N901/400 (19) 2/N903/400
A.3	Organizational Code	N/A	N/A

Page	2590 Item	Item Definition	194 Reference
A.4	Applicant Organization	Submitting organization DUNS Organization IPF code Organization name Organization street address Organization city Organization state Organization zip code	1/NM101/090 (SE) 1/NM108/090 (1,9) 1/NM109/090 1/N901/130 (CR) 1/N902/130 1/NM103/090 1/N201/100 1/N301/110 1/N302/110 1/N401/120 1/N402/120 1/N403/120
A.5	Entity Identification Number	EIN	1/N901/130 (EI) 1/N902/130
A.6	Title and Address of AO	Title AO street address AO city AO state AO zip code AO email address AO mail stop	1/N901/130 (P5) 1/N903/130 1/N301/110 1/N302/110 1/N401/120 1/N402/120 1/N403/120 1/PER07/140 (EM) 1/PER08/140 1/PER09/140
A.7	Human Subjects	Exemption number Assurance of compliance no. IRB full review IRB approval date	2/N901/100 (WI) 2/N902/100 2/N901/100 (F4) 2/N902/100 2/N903/100 2/N904/100
A.8	Vertebrate Animals	Animal welfare assurance no. IACUC approval date	2/N901/100 (Y9) 2/N902/100 2/N904/100
A.9	Costs Requested for Next Budget Period	Costs requested for next budget period	N/A
A.10	Inventions and Patents	Inventions and patents	2/N901/100 (L4) 2/N902/100 (I.6) 2/MTX02/110 (Reported, Not Reported)
A.11	Performance Site(s)	Organization name Organization city Organization state Organization name Organization city Organization state	2/NM101/340 (61) 2/NM103/340 2/N401/370 2/N402/370 - and - 1/NM101/090 (FA) 1/NM103/090 1/N401/120 1/N402/120

Page	2590 Item	Item Definition	194 Reference
A.12a	Principal Investigator	Telephone number Facsimile number PI Mail stop	2/PER03/375 (TE) 2/PER04/375 2/PER05/375 (FX) 2/PER06/375 2/PER09/375
A.12b	Name of AO	AO last name AO first name AO middle name AO name prefix AO name suffix AO government user ID AO telephone number AO facsimile number	1/NM101/090 (AD) 1/NM103/090 1/NM104/090 1/NM105/090 1/NM106/090 1/NM107/090 1/N901/130 (JD) 1/N902/130 1/PER03/140 (TE) 1/PER04/140 1/PER05/140 (FX) 1/PER06/140
A.12c	Name and Title of SO	Signing Official (SO) last name SO first name SO middle name SO name prefix SO name suffix SO government user ID SO title SO telephone number SO facsimile number SO email address SO mail stop	1/NM101/090 (1B) 1/NM103/090 1/NM104/090 1/NM105/090 1/NM106/090 1/NM107/090 1/N901/130 (JD) 1/N902/130 1/N901/130 (P5) 1/N903/130 1/PER03/140 (TE) 1/PER04/140 1/PER05/140 (FX) 1/PER06/140 1/PER07/140 (EM) 1/PER08/140 1/PER09/140
A.13	N/A	N/A	N/A
A.14	Signature/Date for PI	N/A	N/A
A.15	Signature/Date for SO	Application date	1/BGN03/020
E	Report Period – From	Start date for report period	2/DTM01/050 (582) 2/DTM06/050
E	Report Period – Through	Duration of report period	2/DTM01/050 (582) 2/DTM06/050
E	Report Text	Progress report text	2/N901/100 (L4) 2/N902/100 (I) 2/MTX02/110 2/MTX03/110
E	Publications	PI Publications resulting from grant Publication text Medline accession number	2/N901/400 (L4) 2/N902/400 (D.5) 2/N902/400 (D.5.1) 2/MTX02/410 2/MTX03/410

Page	2590 Item	Item Definition	194 Reference
E	Use of Human Subjects	Change Since Previous Submission Describe change	2/YNQ01/090 (5E) 2/YNQ05,6,7/090
E	Use of Animals	Change Since Previous Submission Describe change	2/YNQ01/090 (6G) 2/YNQ05,6,7/090
E	Gender and Minority Inclusion	Gender and number of members for each racial/ethnic group	2/INX/120 2/K301/130
E	Study Title	Title of study	2/N901/100 (43) 2/MTX02/110
F	Assurances/Certifications	Human Subjects Vertebrate Animals Debarment and Suspension Drug-Free Workplace Lobbying Delinquent Federal Debt Research Misconduct Discrimination Regulations Financial Conflict of Interest Response to condition Explanatory text for assurance/certification	see IRB information see IACUC information 2/YNQ01/090 (I8) 2/YNQ01/090 (H5) 2/YNQ01/090 (H0,H4) 2/YNQ01/090 (I7) 2/YNQ01/090 (H6) 2/YNQ01/090 (H8) 2/YNQ01/090 (H9) 2/YNQ02/090 2/YNQ05/090
F	Program Income	Budget period, anticipated amount, source(s) (all provided in one text field)	2/N901/100 (L4) 2/N902/100 (E.4) 2/MTX02/110 2/MTX03/110
F	Indirect Costs	DHHS regional office or other agency Rate is current DHHS agreement date	2/NM101/340 (K8) 2/NM103/340 2/N901/400 (AH) 2/N903/400 "CURRENT" 2/N904/400
F	Calculation	Entire proposed project period Amount of base Rate applied Indirect Costs	2/PPL04/170 (T) 2/PD03-01/190 (P1) 2/PDD02/200 2/PD04/190 2/PDD03/200
F	Check Appropriate Boxes	Check appropriate boxes Salary and wages base Modified total direct cost base Off-site, other special rate, or more than one rate involved Other base	2/PD07/190 51 47 ZZ 08
F	Explanation	Explanation	2/N901/100 (L4) 2/N902/100 (E.7) 2/MTX02/110
G	Personnel Report – Name	Personnel Last name First Name Middle name Name prefix Name suffix Government user ID	2/NM101/340 (9P, 9k) 2/NM103/340 2/NM104/340 2/NM105/340 2/NM106/340 2/NM107/340 2/N901/400 (JD) 2/N902/400

Page	2590 Item	Item Definition	194 Reference
G	Annual % Effort	Level of effort as a percent	2/QTY01/020 (37) 2/QTY02/020
N/A	Question 1: Active OS	Other support (OS)	2/HL03/010 (OS)
N/A	Status	Active Other Support	2/PAM01/060 (37)
N/A	Project Dates	Approved OS project start date Approved OS project end date	2/PAM07/060 (193) 2/PAM08/060 2/PAM10/060 (194) 2/PAM11/060
N/A	Annual Direct Costs	Annual direct costs for OS project	2/PAM04/060 (F) 2/PAM05/060
N/A	Percent Effort	Percent effort for OS project	2/PAM13/060 (14) 2/PAM14/060
N/A	Active Support Project Information	OS Project number OS Project title	2/N901/400 (CT) 2/N902/400 2/MTX02/410
N/A	Source	OS Source	2/NM101/340 (92) 2/NM103/340
N/A	Major Goals	OS Major goals	2/N901/400 (K5) 2/MTX02/410
N/A	Overlap	OS Overlap	2/N901/400 (YV) 2/MTX02/410
N/A	Principal Investigator	OS PI PI last name PI first name PI middle name PI name prefix PI name suffix	2/NM101/340 (9P) 2/NM103/340 2/NM104/340 2/NM105/340 2/NM106/340 2/NM107/340
N/A	Question 2: Significant rebudgeting of funds	Explanation of significant rebudgeting of funds	2/N901/100 (L4) 2/N902/100 (I.7) 2/MTX02/110 2/MTX03/110
N/A	Question 3: Change in level of effort of key personnel	Explanation of changes in level of effort of key personnel	2/N901/100 (L4) 2/N902/100 (C.1) 2/MTX02/110 2/MTX03/110
N/A	Name	Government User ID of person or person's name	2/PD07/190 (01) 2/PD08/190
N/A	Role on Project	Role on project	2/PD07/190 (01) 2/PD09/190
N/A	Type Appt	Number of months per year reflected in an individual's appointment	2/PD07/190 (01) 2/PDD02/200
N/A	% Effort on Project	New level of effort as a percent	2/PD07/190 (01) 2/PDD04/200
N/A	Question 4. Unobligated Balance	Explanation of estimated unobligated balance	2/N901/100 (L4) 2/N902/100 (I.5) 2/MTX02/110 2/MTX03/110

Page	2590 Item	Item Definition	194 Reference
N/A	Abstract	Updated abstract	2/N901/100 (L4) 2/N902/100 (A) 2/MTX02/110 2/MTX03/110
N/A	N/A	Identification of Federal agency Cite DUNS Number for NIH Use value of 927645168	1/NM101/090 (BY) 1/NM108/090 (1) 1/NM109/090

2.4 Applications and Profiles

Grantee organizations and users must register with NIH before being referenced on an application. Once registered, the grantee organization maintains its Organizational Profile (OPF) and each user maintains a Professional Profile (PPF). When submitting SNAP data to NIH via EDI, there are business rules that govern how information in the application affects the profiles. In general, grant application data elements:

- must match the registered profile values, or
- are stored as part of the application, but do not change the profile, or
- change the profile.

The specific business rules are described below. Note that not all the data elements listed are required to be present on an application.

2.4.1 Organizational Profile

With respect to the applicant organization, no organizational data submitted via the data stream affects the OPF. The following grant application data elements *must* match OPF values registered with NIH. If not, the transaction is rejected.

- Institutional Profile (IPF) code
- DUNS number
- EIN

Note that if the organization name, division or department do not match the OPF values registered with NIH, the values submitted on the application are ignored, and an email message is returned to the grantee identifying the inconsistency.

The following data elements are stored as part of the application, but do not change the OPF.

- address (street address, city, state, etc.)
- assurance and certification data

2.4.2 Professional Profile

NIH uses a Unique Person Algorithm (based on various PPF data elements) to uniquely identify key individuals on a grant application. If the algorithm *fails* (i.e., cannot uniquely identify an individual), the transaction is rejected. Note that failure to recognize even one key person causes the grant application to be rejected. If the algorithm succeeds (i.e., uniquely identifies an individual), PPF data elements are handled as follows.

The following grant application data elements *must* match PPF values registered with NIH. If not, the transaction is rejected.

- Government User Identifier (GUIDe)
- Social Security Number (SSN) – note that an invalid GUIDe or SSN will result in the algorithm failing. They are listed here only for completeness.

The following grant application data elements *should* match PPF values registered with NIH. If not, they are stored as part of the application (they do not change the PPF), but an email message is returned to the grantee identifying the inconsistency(ies).

- name
- date of birth

The following data elements are stored as part of the application, but do not change the user's PPF.

- position title
- address (street address, city, state, etc.)
- contact data (phone, fax, email)

Publications are handled as follows. Each publication specified in the SNAP data stream is stored as part of the application. In addition, each publication is compared to the PI's PPF registered with NIH. If the data stream publication does not match any entry in the PI's PPF, the publication is added to the PI's PPF.

2.5 General Processing Rules

NIH applies some general rules when processing data streams. The NIH processing rules for EDI transactions containing SNAP applications are as follows.

1. There are 194 data segments, data elements, and codes not supported by NIH. Any unsupported information included in the data stream is ignored.
2. This implementation guide restricts the length of certain data elements. If a data element exceeds an NIH length constraint, the data stream is rejected.
3. Some 194 data elements comprise multiple values (e.g., a person can have multiple position titles). For some of these data elements, NIH only permits a single value (e.g., NIH only allows a single title to be specified for a person). When this scenario

arises, only one value is stored with the application. The grantee is notified via email of which value was accepted.

4. NIH requires the following HL loops to be present in the 194 transaction set: the Project Loop (“PC”) and one iteration of the Key Person Loop (“26”) for the PI. Within these two loops, NIH requires the following information. If any of the required data are missing, the transaction is rejected.
 - Unique identification of the PI, SO, and AO.
 - Unique identification of the applicant organization
 - Unique identification of NIH as the funding agency.
 - The NIH grant number.
 - The budget period start date and length
 - The progress report.

2.6 ASCII Text

When submitting SNAP data to NIH via the X12 194 transaction set, grantee organizations encode the data using the 7-bit American Standard Code for Information Interchange (ASCII) bit pattern. This encoding scheme does not permit the representation of many foreign language characters (e.g., the Å). This limitation is most apparent when specifying abstracts, project titles and publication titles containing special characters (e.g., mathematical characters). For phase two of the SNAP/EDI pilot, NIH recommends providing a brief description of the special character. For example, use *delta* in lieu of δ , or use *small a, umlaut* in lieu of ä.

3 194 Transaction Set

The X12 194 transaction set is used by grantee organizations (or their agents) to submit SNAP data to NIH. A single transmission of this transaction set shall be used to submit a single SNAP application.

Heading:

	<u>Pos No</u>	<u>Seg ID</u>	<u>Name</u>	<u>Req Des</u>	<u>Max Use</u>	<u>Repeat</u>
R	010	ST	Transaction Set Header	M	1	
R	020	BGN	Beginning Segment	M	1	
N/U	030	DTM	Date/Time Reference	O	>1	
N/U	040	LDT	Lead Time	O	>1	
N/U	050	PWK	Paperwork	O	>1	
LOOP ID – N9						>1
O	060	N9	Reference Number	O	1	
N/U	070	L11	Business Instructions	O	>1	
O	080	MTX	Text	O	>1	
LOOP ID – NM1						>1
R	090	NM1	Individual or Organizational Name	O	1	
O	100	N2	Additional Name Information	O	1	
O	110	N3	Address Information	O	2	
O	120	N4	Geographic Location	O	1	
O	130	N9	Reference Number	O	>1	
O	140	PER	Administrative Communications Contact	O	>1	

Detail:

	<u>Pos No</u>	<u>Seg ID</u>	<u>Name</u>	<u>Req Des</u>	<u>Max Use</u>	<u>Repeat</u>
			LOOP ID – HL			>1
R	010	HL	Hierarchical Level	M	1	
O	020	QTY	Quantity	O	>1	
N/U	030	AMT	Monetary Amount	O	>1	
O	050	DTM	Date/Time Reference	O	>1	
O	060	PAM	Period Amount	O	>1	
N/U	070	HSD	Health Care Services Delivery	O	>1	
N/U	080	NX1	Property or Entity Identification	O	>1	
O	090	YNQ	Yes/No Question	O	>1	
			LOOP ID - N9			>1
O	100	N9	Reference Number	O	1	
N/U	105	L11	Business Instructions	O	>1	
O	110	MTX	Text	O	>1	
			LOOP ID – INX			>1
O	120	INX	Index Detail	O	1	
O	130	K3	File Information	M	>1	
			LOOP ID - PO1			>1
N/U	140	PO1	Baseline Item Data	O	1	
N/U	160	MTX	Text	O	>1	
			LOOP ID – PPL			>1
O	170	PPL	Price Support Data	O	1	
N/U	180	REF	Reference Identification	O	>1	
			LOOP ID – PD			>1
O	190	PD	Pricing Data	O	1	
O	200	PDD	Pricing Data Detail	O	>1	
			LOOP ID – PL			>1
N/U	210	PL	Proposal Cost Logic	O	1	
N/U	220	REF	Reference Identification	O	>1	
N/U	230	AMT	Monetary Amount	O	1	
N/U	240	PCT	Percent Amounts	O	1	
N/U	250	QTY	Quantity	O	1	
N/U	260	NTE	Note/Special Instruction	O	>1	
			LOOP ID – PD			>1
N/U	270	PD	Pricing Data	O	1	
N/U	280	SPI	Specification Identifier	O	1	
N/U	290	REF	Reference Identification	O	>1	
N/U	300	PDD	Pricing Data Detail	O	>1	
N/U	310	MTX	Text	O	>1	
N/U	320	DTM	Date/Time Reference	O	10	

LOOP ID – LX			>1		
O	330	LX	Assigned Number	O	1
O	340	NM1	Individual or Organizational Name	O	1
O	350	N2	Additional Name Information	O	1
O	360	N3	Address Information	O	2
O	370	N4	Geographic Location	O	1
O	375	PER	Administrative Communications Contact	O	>1
O	380	DMG	Demographic Information	O	>1
O	390	EMS	Employment Position	O	1
LOOP ID - N9			>1		
O	400	N9	Reference Identification	O	1
N/U	405	L11	Business Instructions	O	>1
O	410	MTX	Text	O	>1
LOOP ID – DEG			>1		
N/U	420	DEG	Degree Record	O	1
N/U	430	FOS	Field of Study	O	>1
N/U	440	N1	Name	O	>1
LOOP ID - K2			>1		
N/U	450	K2	Administrative Message	O	1
N/U	460	N9	Reference Identification	O	>1
N/U	470	NM1	Individual or Organizational Name	O	>1
R	480	SE	Transaction Set Trailer	M	1

3.1 ST Segment (1/010)

Table / Position: 1 / 010

Purpose: To indicate the start of a transaction set and to assign a control number.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	ST01	143	Transaction Set Identifier Code "194" X12.372 Grant or Assistance Application	M ID 3/3
R	ST02	329	Transaction Set Control Number	M AN 4/9

3.2 BGN Segment (1/020)

Table / Position: 1 / 020

Purpose: To indicate the beginning of a transaction set.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	BGN01	353	Transaction Set Purpose Code "00" Original	M ID 2/2
R	BGN02	127	Reference Identification	M AN 1/30
R	BGN03	373	Date	M DT 8/8
R	BGN04	337	Time	X TM 4/8
O	BGN05	623	Time Code "LT" Local Time	O ID 2/2
O	BGN06	127	Reference Identification	O ID 1/30
R	BGN07	640	Transaction Type Code "6N" Non-competitive Renewal	O ID 2/2
N/U	BGN08	306	Action Code	O ID 1/2
N/U	BGN09	786	Security Level Code	O ID 2/2

3.3 N9 Segment (1/060)

Table / Position: 1 / 060

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N901	128	Reference Identification Qualifier "4W" Study "CT" Contract Number	M ID 2/3
O	N902	127	Reference Identification	X AN 1/30
O	N903	369	Free-form Description	X AN 1/45
N/U	N904	373	Date	O DT 8/8
N/U	N905	337	Time	X TM 4/8
N/U	N906	623	Time Code	O ID 2/2
N/U	N907	C040	Reference Identifier	O

3.4 MTX Segment (1/080)

Table / Position: 1 / 080

Purpose: To specify textual data.

Usage	Ref. Des.	Data Elmt	Name	Attributes
N/U	MTX01	363	Note Reference Code	O ID 3/3
R	MTX02	1551	Message Text <i>Maximum length for an NIH project title is 81 characters.</i>	X AN 1/4096
N/U	MTX03	1551	Message Text	O AN 1/4096
N/U	MTX04	934	Printer Carriage Control Code	O ID 2/2

3.5 NM1 Segment (1/090)

Table / Position: 1 / 090

Purpose: To supply the full name of an individual or organizational entity.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	NM101	98	Entity Identifier Code “1B” Applicant “AD” Party to be advised “BY” Buying Party “FA” Facility “SE” Selling Party	M ID 2/3
R	NM102	1065	Entity Type Qualifier “1” Person “2” Non-person Entity	M ID 1/1
O	NM103	1035	Name Last or Organization Name <i>Maximum length for last name is 30 characters.</i>	O AN 1/35
O	NM104	1036	Name First	O AN 1/25
O	NM105	1037	Name Middle	O AN 1/25
O	NM106	1038	Name Prefix	O AN 1/10
O	NM107	1039	Name Suffix <i>Maximum length for name suffix is 5 characters.</i>	O AN 1/10
C	NM108	66	Identification Code Qualifier “1” DUNS Number, Dun & Bradstreet “9” DUNS+4, DUNS Number with Four Character Suffix	X ID 1/2
C	NM109	67	Identification Code	X AN 2/80
O	NM110	706	Entity Relationship Code	X ID 2/2
O	NM111	98	Entity Identifier Code	O ID 2/3

3.6 N2 Segment (1/100)

Table / Position: 1 / 100

Purpose: To specify additional names or names longer than 35 characters in length.

Notes: 1. Only one occurrence of this data segment is permitted per iteration of the NMI loop.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N201	93	Name <i>Use with NM103 to specify organization name that is longer than 35 characters. NIH will append N201 to NM103. Maximum length for NM103 + N201 is 40 characters.</i>	M AN 1/60
N/U	N202	93	Name	O AN 1/60

3.7 N3 Segment (1/110)

Table / Position: 1 / 110

Purpose: To specify the location of the named party.

Usage	Ref. Des.	ID	Name	Attributes
R	N301	166	Address Information <i>Maximum length for an address line is 50 characters.</i>	M AN 1/55
O	N302	166	Address Information <i>Maximum length for an address line is 50 characters.</i>	O AN 1/55

3.8 N4 Segment (1/120)

Table / Position: 1 / 120

Purpose: To specify the geographic location of the named party.

Usage	Ref. Des.	Data Elmt	Name	Attributes
O	N401	19	City Name	O AN 2/30
O	N402	156	State or Province Code	O ID 2/2
O	N403	116	Postal Code <i>Maximum length for postal code is 9 characters.</i>	O ID 3/15
O	N404	26	Country Code	O ID 2/3
O	N405	309	Location Qualifier "CY" County/Parish	X ID 1/2
O	N406	310	Location Identifier	O AN 1/30

3.9 N9 Segment (1/130)

Table / Position: 1 / 130

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N901	128	Reference Identification Qualifier “CR” Customer Reference Number. “EI” Employer’s Identification Number. “JD” User Identification. “P5” Position Code.	M ID 2/3
O	N902	127	Reference Identification	X AN 1/30
O	N903	369	Free-form Description <i>Maximum length of a position title is 40 characters.</i>	X AN 1/45
N/U	N904	373	Date	O DT 8/8
N/U	N905	337	Time	X TM 4/8
N/U	N906	623	Time Code	O ID 2/2
N/U	N907	C040	Reference Identifier	O

3.10 PER Segment (1/140)

Table / Position: 1 / 140

Purpose: To identify a person or office to which administrative communications should be directed.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	PER01	366	Contact Function Code “IC” Information Contact.	M ID 2/2
O	PER02	93	Name	O AN 1/60
R	PER03	365	Communication Number Qualifier “TE” Telephone	X ID 2/2
R	PER04	364	Communication Number <i>Maximum length for telephone number is 25 characters.</i>	X AN 1/80
C	PER05	365	Communication Number Qualifier “FX” Facsimile	X ID 2/2
C	PER06	364	Communication Number <i>Maximum length for facsimile number is 25 characters.</i>	X AN 1/80
C	PER07	365	Communication Number Qualifier “EM” Electronic Mail	X ID 2/2
C	PER08	364	Communication Number	X AN 1/80
O	PER09	443	Contact Inquiry Reference	O AN 1/20

3.11 HL Segment (2/010)

Table / Position: 2 / 010

Purpose: To identify dependencies among the content of hierarchically related groups of data segments.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	HL01	628	Hierarchical ID Number	M AN 1/12
O	HL02	734	Hierarchical Parent ID Number	O AN 1/12
R	HL03	735	Hierarchical Level Code “26” Member “OS” Other Support “PC” Project Code	M ID 1/2
O	HL04	736	Hierarchical Child Code “0” No Subordinate HL Segment “1” Additional Subordinate HL Data Segment	O ID 1/1

3.12 QTY Segment (2/020)

Table / Position: 2 / 020

Purpose: To specify quantity information.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	QTY01	673	Quantity Qualifier “37” Work In Process	M ID 2/2
R	QTY02	380	Quantity	X R 1/15
N/U	QTY03	C001	Composite Unit of Measure	O
N/U	QTY04	61	Free-Form Message	X AN 1/30

3.13 DTM Segment (2/050)

Table / Position: 2 / 050

Purpose: To specify pertinent dates and times.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	DTM01	374	Date/Time Qualifier "193" Period Start. "194" Period End. "582" Report Period.	M ID 3/3
C	DTM02	373	Date	X DT 8/8
N/U	DTM03	337	Time	X TM 4/8
N/U	DTM04	623	Time Code	O ID 2/2
C	DTM05	1250	Date Time Period Format Qualifier "RD8" CCYYMMDD-CCYYMMDD Format.	X ID 2/3
C	DTM06	1251	Date Time Period	X AN 1/35

3.14 PAM Segment (2/060)

Table / Position: 2 / 060

Purpose: To indicate a quantity and/or amount for an identified period.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	PAM01	673	Quantity Qualifier "37" Work In Progress "A3" Most Likely Duration	X ID 2/2
R	PAM02	380	Quantity	X R 1/15
R	PAM03	C001	Composite Unit of Measure	X
R	C00101	355	Unit or Basis for Measurement Code "MO" Months	M ID 2/2
C	PAM04	522	Amount Qualifier Code "F" Annual Limit.	X ID 1/3
C	PAM05	782	Monetary Amount	X R 1/18
C	PAM06	344	Unit of Time Period or Interval "CC" Cycles	X ID 2/2
C	PAM07	374	Date/Time Qualifier "193" Period Start	X ID 3/3
C	PAM08	373	Date	X DT 8/8
N/U	PAM09	337	Time	X TM 4/8
C	PAM10	374	Date/Time Qualifier "194" Period End	X ID 3/3
C	PAM11	373	Date	X DT 8/8
N/U	PAM12	337	Time	X TM 4/8
C	PAM13	1004	Percent Qualifier "14" Availability Factor	X ID 1/2
C	PAM14	954	Percent	X R 1/10
N/U	PAM15	1073	Yes/No Condition or Response Code	O ID 1/1

3.15 YNQ Segment (2/090)

Table / Position: 2 / 090

Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	YNQ01	1321	Condition Indicator “5E” Medical Treatment “6G” Work Status “H0” Organization Certifies Compliance With Federal Lobbying Regulations “H4” Lobbying Activities Have Been Conducted Regarding the Proposal “H5” Organization Certifies Compliance With the Drug-Free Workplace Act “H6” Organization Certifies Compliance With the Code of Federal Regulations Regarding Research Misconduct “H8” Organization Certifies Compliance With Federal Discrimination Regulations “H9” Organization Certifies Compliance With the Code of Federal Regulations Regarding Responsibility of Applicants for Promoting Objectivity in Research for which Public Health Service (PHS) Funding is Sought “I7” Organization has Delinquent Federal Debts “I8” Organization Has Been Placed on the Federal Debarment and Suspension List	X ID 2/2
R	YNQ02	1073	Yes/No Condition or Response Code “N” No “Y” Yes	M ID 1/1
N/U	YNQ03	1250	Date Time Period Format Qualifier	X ID 2/3
N/U	YNQ04	1251	Date Time Period	X AN 1/35
O	YNQ05	933	Free-Form Message Text	O AN 1/264
O	YNQ06	933	Free-Form Message Text	O AN 1/264
O	YNQ07	933	Free-Form Message Text	O AN 1/264
N/U	YNQ08	1270	Code List Qualifier Code	X ID 1/3
N/U	YNQ09	1271	Industry Code	X AN 1/30
N/U	YNQ10	933	Free-Form Message Text	X AN 1/264

3.16 N9 Reference Number (2/100)

Table / Position: 2 / 100

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N901	128	Reference Identification Qualifier “43” Supporting Document Number. “F4” Facility Certification Number. “L4” Proposal Paragraph Number. “WI” Waiver. “Y9” Current Certificate Number.	M ID 2/3
R	N902	127	Reference Identification “A” Abstract “C.1” Personnel & Budget Justification <i>Use to explain changes in level of effort of key personnel.</i> “E.4” Project Related Income “E.7” Indirect Cost Base “I” Progress Report “I.5” Significant Unobligated Balances “I.6” Inventions <i>Use to indicate that one or more inventions were conceived under this project. Cite the words REPORTED or NOT REPORTED in 2/MTX02/110 to indicate whether the inventions were previously reported.</i> “I.7” Expenditures To-Date <i>Use to explain significant rebudgeting of funds.</i>	X AN 1/30
O	N903	369	Free-form Description	X AN 1/45
O	N904	373	Date	O DT 8/8
N/U	N905	337	Time	X TM 4/8
N/U	N906	623	Time Code	O ID 2/2
N/U	N907	C040	Reference Identification	O

3.17 MTX Segment (2/110)

Table / Position: 2 / 110

Purpose: To specify textual data.

Usage	Ref. Des.	Data Elmt	Name	Attributes
N/U	MTX01	363	Note Reference Code	O ID 3/3
R	MTX02	1551	<p>Message Text</p> <p><i>Maximum length for Gender and Minority Inclusion title is 60 characters.</i></p> <p><i>Maximum length for an abstract is 4M.</i></p> <p><i>Maximum length for a publication is 2K.</i></p> <p><i>Maximum length for the budget justification is 2K.</i></p> <p><i>Maximum length for the program income explanation is 100 characters.</i></p> <p><i>Maximum length for indirect cost base explanation is 4M.</i></p> <p><i>Maximum length for the progress report text is 4M.</i></p> <p><i>Maximum length for the estimated unobligated balance explanation is 2K.</i></p>	X AN 1/4096
O	MTX03	1551	Message Text	O AN 1/4096
N/U	MTX04	934	Printer Carriage Control Code	O ID 2/2

3.18 INX Segment (2/120)

Table / Position: 2 / 120

Purpose: To specify an index.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	INX01	1550	Index Qualifier "1" Matrix Start – Absolute Reference	M ID 1/2
R	INX02	C036	Index Identification	M
O	C03601	1395	Configuration Type Code "1" Horizontal, Left to Right <i>Construct the Gender and Minority Inclusion matrix as follows: Rows: 1 (Male), 2 (Female), 3 (Unknown) Cols: A (Indian), B (Asian), C (Black), D (Hispanic), E (White), F (Other)</i>	O ID 1/1
N/U	C03602	127	Reference Identification	X AN 1/30
N/U	C03603	127	Reference Identification	X AN 1/30
N/U	C03604	863	X-Peg	X R 1/6
N/U	C03605	864	Y-Peg	X R 1/6

3.19 K3 Segment (2/130)

Table / Position: 2 / 130

Purpose: To transmit fixed-format record or matrix contents.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	K301	449	Fixed Format Information	M AN 1/80
N/U	K302	1333	Record Format Code	O ID 1/2
N/U	K303	C001	Unit or Basis for Measurement Code	O

3.20 PPL Segment (2/170)

Table / Position: 2 / 170

Purpose: To provide information about pricing support.

Usage	Ref. Des.	Data Elmt	Name	Attributes
N/U	PPL01	1309	Acquisition Data Code	O ID 2/2
N/U	PPL02	373	Date	O DT 8/8
N/U	PPL03	373	Date	O DT 8/8
O	PPL04	352	Description	O AN 1/80
N/U	PPL05	1401	Proposal Data Detail Identifier Code	O ID 1/3

3.21 PD Segment (2/190)

Table / Position: 2 / 190

Purpose: To describe the pricing basic input detail.

1. For individuals with different percentages over different periods (e.g., different level of effort for academic period versus summer period), use only one iteration of the PD loop and average the percentages for the individual.

2. All people specified for an application must be identified in the budget.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	PD01	344	Unit of Time Period or Interval "CC" Cycles	M ID 2/2
R	PD02	373	Date	M DT 8/8
R	PD03	C001	Composite Unit of Measure	M
R	C00101	355	Unit or Basis for Measurement Code "DO" Dollars, U.S. "P1" Percent	M ID 2/2
O	C00104	355	Unit or Basis for Measurement Code "8S" Session	O ID 2/2
R	PD04	380	Quantity	M R 1/15
O	PD05	93	Name	M AN 1/60
O	PD06	352	Description	O AN 1/80
O	PD07	1196	Breakdown Structure Detail Code "01" Labor "08" Other Overhead "38" Total Cost Plus General & Administrative "47" Total Direct Cost Base "51" Employment "ZZ" Mutually Defined	O ID 2/2

O	PD08	127	Reference Identification <i>For a named individual, use the syntax: LastName, FirstName, MiddleName</i>	O AN 1/30
O	PD09	352	Description <i>NIH recognizes the following project roles: Principal Investigator, Research Assistant, Staff Scientist, Fellow, Lab Technician, and Supportee.</i>	O AN 1/80
N/U	PD10	1401	Proposed Data Detail Identifier Code	O ID 1/3

3.22 PDD Segment (2/200)

Table / Position: 2 / 200

Purpose: To provide the rates, direct input, and pricing factors for each element of work, cross-referenced to an applicable request or submission.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	PDD01	350	Assignment Identification	M AN 1/20
O	PDD02	380	Quantity	X R 1/15
O	PDD03	782	Monetary Amount <i>Monetary amounts must be an integer value of no more than 10 digits.</i>	X R 1/18
O	PDD04	954	Percent	X R 1/10
N/U	PDD05	1401	Proposal Data Detail Identifier Code	O ID 1/3

3.23 LX Segment (2/330)

Table / Position: 2 / 330

Purpose: To reference a line number in a transaction set.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	LX01	554	Assigned Number	M NO 1/6

3.24 NM1 Segment (2/340)

Table / Position: 2 / 340

Purpose: To supply the full name of an individual or organizational entity.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	NM101	98	Entity Identifier Code “61” Performed At. “92” Support Party. “9K” Key Person. <i>All key personnel must be registered with NIH.</i> “9P” Investigator. “K8” Filing Location.	M ID 2/3
R	NM102	1065	Entity Type Qualifier “1” Person. “2” Non-person Entity.	M ID 1/1
O	NM103	1035	Name Last or Organization Name <i>Maximum length for last name is 30 characters</i> <i>When specifying the Other Support PI name, the total characters comprising NM103 through NM107 must be no more than 60 characters.</i> <i>When specifying the DHHS Regional office at which an indirect cost rate has been negotiated, use the following codes:</i> “NE” Northeastern Office, New York, NY “MID” Mid-Atlantic Office, Washington, DC “CEN” Central States Office, Dallas, TX “WES” Western States Office, San Francisco, CA <i>If an indirect cost rate has been negotiated at a different agency’s cost advisory office, cite the name of the office.</i>	O AN 1/35
O	NM104	1036	Name First	O AN 1/25
O	NM105	1037	Name Middle	O AN 1/25
O	NM106	1038	Name Prefix	O AN 1/10
O	NM107	1039	Name Suffix <i>Maximum length for name suffix is 5 characters.</i>	O AN 1/10
N/U	NM108	66	Identification Code Qualifier	X ID 1/2
N/U	NM109	67	Identification Code	X AN 2/80
N/U	NM110	706	Entity Relationship Code	X ID 2/2
N/U	NM11	98	Entity Identifier Code	O ID 2/3

3.25 N2 Segment (2/350)

Table / Position: 2 / 350

Purpose: To specify additional names or names longer than 35 characters in length.

Notes: 1. Only one occurrence of this data segment is permitted per iteration of the LX loop.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N201	93	Name <i>Use with NM103 to specify organization name that is longer than 35 characters. NIH will append N301 to NM103. Maximum length for NM103 + N201 is 40 characters.</i>	M AN 1/60
N/U	N202	93	Name	O AN 1/60

3.26 N3 Segment (2/360)

Table / Position: 2 / 360

Purpose: To specify the location of the named party.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N301	166	Address Information <i>Maximum length for an address line is 50 characters.</i>	M AN 1/55
O	N302	166	Address Information <i>Maximum length for an address line is 50 characters.</i>	O AN 1/55

3.27 N4 Segment (2/370)

Table / Position: 2 / 370

Purpose: To specify the geographic location of the named party.

Usage	Ref. Des.	Data Elmt	Name	Attributes
O	N401	19	City Name	O AN 2/30
O	N402	156	State or Province Code	O ID 2/2
O	N403	116	Postal Code <i>Maximum length for Postal Code is 9 characters.</i>	O ID 3/15
O	N404	26	Country Code	O ID 2/3
O	N405	309	Location Qualifier "CY" County/Parish	X ID 1/2
O	N406	310	Location Identifier	O AN 1/30

3.28 PER Segment (2/375)

Table / Position: 2 / 375

Purpose: To identify a person or office to which administrative communications should be directed.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	PER01	366	Contact Function Code "IC" Information Contact.	M ID 2/2
O	PER02	93	Name	O AN 1/60
R	PER03	365	Communication Number Qualifier "TE" Telephone	X ID 2/2
R	PER04	364	Communication Number <i>Maximum length for telephone number is 25 characters.</i>	X AN 1/80
C	PER05	365	Communication Number Qualifier "FX" Facsimile	X ID 2/2
C	PER06	364	Communication Number <i>Maximum length for facsimile number is 25 characters.</i>	X AN 1/80
C	PER07	365	Communication Number Qualifier "EM" Electronic Mail	X ID 2/2
C	PER08	364	Communication Number	X AN 1/80
O	PER09	443	Contact Inquiry Reference	O AN 1/20

3.30 DMG Segment (2/390)

Table / Position: 2 / 390

Purpose: To describe employment position.

Usage	Ref. Des.	Data Elmt	Name	Attributes
N/U	DMG01	1250	Date Time Period Format Qualifier	X ID 2/3
O	DMG02	1251	Date Time Period	X AN 1/35
N/U	DMG03	1068	Gender Code	O ID 1/1
N/U	DMG04	1067	Marital Status Code	O ID 1/1
N/U	DMG05	1109	Race or Ethnicity Code	O ID 1/1
N/U	DMG06	1066	Citizenship Status Code	O ID 1/2
N/U	DMG07	26	Country Code	O ID 2/3
N/U	DMG08	659	Basis of Verification Code	O ID 1/2
N/U	DMG09	380	Quantity	O R 1/15

3.31 EMS Segment (2/390)

Table / Position: 2 / 390

Purpose: To describe employment position.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	EMS01	352	Description <i>NIH recognizes the following project roles: Research Assistant, Staff Scientist, Fellow, Lab Technician, and Supportee.</i>	O AN 1/80
N/U	EMS02	1176	Employment Class Code	O ID 2/3
N/U	EMS03	1149	Occupation Code	O ID 4/6
N/U	EMS04	584	Employment Status Code	O ID 2/2
N/U	EMS05	128	Reference Identification Qualifier	X ID 2/3
N/U	EMS06	127	Reference Identification	X AN 1/30
N/U	EMS07	127	Reference Identification	O AN 1/30

3.32 N9 Segment (2/400)

Table / Position: 2 / 400

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	N901	128	Reference Number Qualifier "19" Division Identifier. "AH" Agreement Number. "CT" Contract Number. "JD" User Identification. "K5" Task Order. "L4" Proposal Paragraph Number. "P5" Position Code. "SY" Social Security Number. "YV" Participating Area. <i>Summarize overlap for all OS projects on a per individual basis.</i>	M ID 2/3
R	N902	127	Reference Number "D.5" Publications. "D.5.1" Medline Accession Number.	X AN 1/30
O	N903	369	Free-form Description <i>Maximum length of a position title is 40 characters.</i>	X AN 1/45
O	N904	373	Date	O DT 8/8
N/U	N905	337	Time	X TM 4/8
N/U	N906	623	Time Code	O ID 2/2
O	N907	C040	Reference Identifier	O
R	C04001	128	Reference Identification Qualifier "DP" Department Number.	M ID 2/3
R	C04002	127	Reference Identification	M AN 1/30

3.33 MTX Segment (2/410)

Table / Position: 2 / 410

Purpose: To specify textual data.

Usage	Ref. Des.	Data Elmt	Name	Attributes
N/U	MTX01	363	Note Reference Code	O ID 3/3
R	MTX02	1551	Message Text <i>Maximum length for the Other Support project title is 60 characters.</i> <i>Maximum length for the Other Support major goals is 700 characters.</i> <i>Maximum length for the Other Support overlap is 700 characters.</i>	X AN 1/4096
O	MTX03	1551	Message Text	O AN 1/4096
N/U	MTX04	934	Printer Carriage Control Code	O ID 2/2

3.34 SE Segment (2/480)

Table / Position: 2 / 480

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Usage	Ref. Des.	Data Elmt	Name	Attributes
R	SE01	96	Number of Included Segments	M NO 1/10
R	SE02	329	Transaction Set Control Number	M AN 4/9

Appendix A. Sample PHS 2590 Application and 194 Transaction Set

This appendix contains a sample PHS 2590 application (pages A, C, E, F, and G). The sample application is followed by the corresponding X12 194 transaction set.

The sample PHS 2590 application contains fictitious information. Although the application data is *realistic* in format, it should not be used as guidance for completing a 2590 application. The purpose of the sample application is to illustrate the relationship between 2590 form data elements and the X12 194 transaction set.

Also, note that within the transaction set certain data elements are italic and bold. These data elements are mapped directly to fields in an NIH database.

Department of Health and Human Services Public Health Services <h2 style="margin: 0;">Application</h2> <h3 style="margin: 0;">For Continuation Grant</h3>	Review Group	Type	Activity	Grant Number 5R01CA00000002
Total Project Period From: 04/01/96 Through: 03/31/99				
Requested Budget Period: From: 04/01/97 Through: 03/31/98				

1. TITLE OF PROJECT Atherosclerosis Prevention Study	4. APPLICANT ORGANIZATION (Name and address, street, city, state, zip code) DUNS Number: 112233445 IPF Code: 1234567
2. PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Name and address, street, city, state, zip code) Galileo N. Galilei University of Bethesda Atherosclerosis Research Unit 461 Ocean Blvd., CSC-32 Bethesda, MD 20892	5. ENTITY IDENTIFICATION NUMBER 0-13-3454321-A1 6. TITLE AND ADDRESS OF ADMINISTRATIVE OFFICIAL Deputy Director Dept. of Contracts and Grants 1313 Mockingbird Lane, DEI-5555 Bethesda, MD 20892 tbrahe@munster.ub.edu
2b. E-MAIL ADDRESS ggalilei@ub.edu	
2c. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT MDK	
2d. MAJOR SUBDIVISION 01	
3. ORGANIZATIONAL CODE	

7. HUMAN SUBJECTS 7a. If "Yes," Exemption no. <input type="checkbox"/> No <input type="checkbox"/> Yes Or IRB approval date 05/15/96 <input checked="" type="checkbox"/> Full IRB or Expedited Review	7b. Assurance of compliance no. M123456XB	8. VERTEBRATE ANIMALS 8a. If "Yes," IACUC approval Date 02/01/96 <input type="checkbox"/> No <input type="checkbox"/> Yes	8b. Animal welfare assurance no. A9999-01
--	--	---	--

9. COSTS REQUESTED FOR NEXT BUDGET PERIOD 9a. DIRECT \$ 9b. TOTAL \$	10. INVENTIONS AND PATENTS <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If "Yes," <input checked="" type="checkbox"/> Previously reported <input type="checkbox"/> Not previously reported
11. PERFORMANCE SITE(S) (Organizations and addresses) Pharmacology Research Laboratory Bethesda, MD 20892	12a. PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR (Item 2a) Galileo Galilei AREA CODE (301) TELEPHONE NO. AND FAX NO. 555 1478 (301) 555 2685
	12b. NAME OF ADMINISTRATIVE OFFICIAL (Item 6) Tycho H. Brahe (301) 555-2396 (301) 555-2835
	12c. NAME AND TITLE OF OFFICIAL SIGNING FOR APPLICATION ORGANIZATION (Item 15) Giordano Bruno Jr Provost & Senior VP for Academic Affairs (301) 555-2395 (301) 555-2835
	E-MAIL ADDRESS

13. Do not use this space.		
14. PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR ASSURANCE: I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of this application.	SIGNATURE OF PI/PD NAMED IN 2a. (In ink. "Per" signature not acceptable.)	DATE
15. APPLICATION ORGANIZATION CERTIFICATION AND ACCEPTANCE: I certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.	SIGNATURE OF OFFICIAL NAMED IN 12c. (In ink. "Per" signature not acceptable.)	DATE 06/02/96

PROGRESS REPORT SUMMARY	GRANT NUMBER 5R01CA00000002	
PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR Galileo Galilei	PERIOD COVERED BY THIS REPORT	
APPLICANT ORGANIZATION DUNS Number: 112233445	FROM 04/01/96	THROUGH 03/31/97
TITLE OF PROJECT <i>(Repeat title shown in Item 1 on first page)</i> Atherosclerosis Prevention Study		

- a. Human Subjects *(Complete Item 7 on the Face Page)*
 Use of Human Subjects Change No Change Since Previous Submission
- b. Vertebrate Animals *(Complete Item 8 on Face Page)*
 Use of Vertebrate Animals Change No Change Since Previous Submission

(SEE INSTRUCTIONS)

This is where the progress report goes.

Significant rebudgeting of funds:

This is where the explanation for significant rebudgeting of funds goes.

Change in the level of effort of key personnel:

For the next budget period, the level of effort for Copernicus increases to 9 months at 50% and 2 months at 100%, Newton will discontinue working on the project, and will be replaced by John A. Bashear with a level of effort of 50%.

Estimated unobligated balance:

This is where the explanation for unobligated balance goes.

Publications:

Copernicus, Nicholaus; Brahe, Tycho; Galilei, Galileo, N.; "Computer assisted identification and classification of infectious and parasitic diseases." *Nucleic Acids Research*. 38 (1996) 3696-3703.

Sitterly, Charlotte, E.; Galilei, Galileo, N.; "In vitro molecular techniques to study gene structure regulation in bacteria. *Microbiol*. 101 (Oct 1996) 989-996.

GENDER AND MINORITY INCLUSION Provide the number of subjects enrolled in the study to date (cumulatively since the most recent competitive award) according to the following categories. (See Page 8 for definitions.) If there is more than one study, provide a separate table for each study. In addition, report on the subpopulations which are included in the study.						STUDY TITLE Gender and Minority Inclusion Study Title goes here.	
	American Indian or Alaskan Native	Asian or Pacific Islander	Black, not of Hispanic Origin	Hispanic	White, not of Hispanic Origin	Other or Unknown	TOTAL
Female	50	50	50	50	50	100	350
Male	35	35	35	35	35	70	245
Unknown							
TOTAL	85	85	85	85	85	170	595

PHS 2590 (REV. 5/95)

(Form Page 5) Page _____

E

CHECKLIST

GRANT NUMBER

1. ASSURANCES/CERTIFICATIONS (See Instructions, Page 9)

The following assurances/certifications are made and verified by the signature of the OFFICIAL SIGNING FOR APPLICATION ORGANIZATION on the FACE PAGE of the application. If unable to certify compliance where applicable, provide an explanation and place it after this page.

•Human Subjects; •Vertebrate Animals; •Debarment and Suspension; •Lobbying; •Delinquent Federal Debt; •Research Misconduct; •Civil Rights (Form HHS 441 or HHS 690); •Handicapped Individuals (Form HHS 641 or HHS 690); •Sex Discrimination (Form HHS 639-A or HHS 690); •Age Discrimination (Form HHS 680 or HHS 690); •Financial Conflict of Interest.

2. PROGRAM INCOME (See Instructions, Page 10.)

All applications must indicate whether program income is anticipated during the period(s) for which grant support is requested. If program income is anticipated, use the format below to reflect the amount and source(s).

Budget Period	Anticipated Amount	Source(s)
04/01/97-03/31/98	\$50,000	Howard Hughes Medical Center

3. INDIRECT COSTS

Indicate the applicant organization's most recent indirect cost rate established with the appropriate DHHS Regional Office, or, in the case of for-profit organizations, the rate established with the appropriate PHS Agency Cost Advisory Office. Indirect costs will **not** be paid on foreign grants, construction

grants, grants to Federal organizations, grants to individuals, and conference grants. Follow any additional instructions provided for Research Career Awards, Institutional National Research Service Awards, and specialized grant applications.

DHHS Agreement dated: March 15, 1996 No Indirect Costs Requested.

No DHHS Agreement, but rate established with _____ Date _____

CALCULATION*

Entire proposed project period:

Amount of base \$ _____ x Rate applied _____ % = Indirect costs \$ _____

Add to total direct costs from form page 2 and enter new total on FACE PAGE, Item 9b.

*Check appropriate box(es):

Salary and wages base Modified total direct cost base Other base (Explain below)

Off-site, other special rate, or more than one rate involved (Explain below)

Explanation (Attach separate sheet, if necessary.):

Principal Investigator/Program Director
(Last, first, middle):

Other Support

GALILEI, G.

ACTIVE

DCB 950000 (Galilei)	12/01/98-11/30/00	20%
National Science Foundation	\$82,163	
Liposome Membrane Composition and Function		

The major goals of this project are to define biochemical properties of liposome membrane components and maximize liposome uptake into cells.

OVERLAP

There is scientific overlap between aim 2 of NSF DCB 950000 and aim 4 of the application under consideration. If both are funded, the budgets will be adjusted appropriately in conjunction with agency staff.

COPERNICUS, N.

NONE

BASHEAR, J.

ACTIVE

5 RO1 CA 00000-07 (Bashear)	04/01/94-03/31/99	30% Academic
NIH/NCI	\$104,428	100% Summer
Gene Therapy for Small Cell Lung Carcinoma		

The major goals of this project are to use viral strategies to express the normal p53 gene in human SCLC cell lines and to study the effect of growth and invasiveness of the lines.

OVERLAP

Potential commitment overlap for Dr. Bashear between 5 RO1 CA 00000-07 and the application under consideration. If the application under consideration is funded with Dr. Bashear committed at 50% effort, Dr. Bashear will request approval to reduce his effort on the NCI grant.

PERSONNEL REPORT

GRANT NUMBER

5R01CA00000002

All Personnel for the Current Budget Period

Name	Degree(s)	SSN	Role on Project (e.g. PI, Res. Assoc.)	Date of Birth (MM/DD/YY)	Annual % Effort
Galilei, Galileo		123456789	PI	03/03/38	40
Copernicus, Nicholas			Research Assistant		32
Newton, Isaac			Staff Scientist		25

Heading:

ST^194^123456789<NL>

BGN^00^UniversityGrantID01^19960602^1200^^
6N<NL>

// Date associated with signing official.
// Type of application.

N9 Loop:

N9^4W^^TITLE<NL>

MTX^^*ATHEROSCLEROSIS
PREVENTION STUDY*<NL>

// Title of project.

N9^CT^5R01CA0000002<NL>

// NIH grant number.

NM1 Loop:

NM1^AD^1^*BRAHE^TYCHO^H*<NL>

// Name of administrative official (AO).

N3^*DEPT OF CONTRACTS & GRANTS^
1313 MOCKINGBIRD LANE, DEI-5555*<NL>

// Address of AO.

N4^*BETHESDA^MD^20892*<NL>

// Address of AO.

N9^P5^^*DEPUTY DIRECTOR*<NL>

// Title of AO.

PER^IC^^TE^3015552396^FX^3015552835^
EM^*TBRAHE@MUNSTER.UB.EDU*<NL>

// Telephone and fax of AO.
// Email address of AO.

NM1^1B^1^*BRUNO^GIORDANO^^JR*<NL>

// Name of the signing official.

N3^*DEPT OF CONTRACTS & GRANTS^
1313 MOCKINGBIRD LANE, DEI-5555*<NL>

// Address of the signing official.

N4^*BETHESDA^MD^29892*<NL>

// Address of the signing official.

N9^P5^^*PROVOST & SENIOR VP FOR
ACADEMIC AFFAIRS*<NL>

// Title of the signing official.

PER^IC^^TE^3015552395^FX^3015552835<NL>

// FAX and telephone of the signing official.

NM1^SE^2^1^112233445<NL>

// Organization DUNS number.

N9^CR^1234567<NL>

// Organization's IPF number.

N9^EI^0123454321A1<NL>

// Organization's EIN.

NM1^BY^2^1^927645168<NL>

// NIH DUNS # is 927645168

NM1^FA^2^*PHARMACOLOGY RESEARCH*

LABORATORY <NL> // Performance site organization.
 N4^**BETHESDA**^**MD**^20892 // Performance site city, state, and zip code.

Detail:

HL Loop:

HL^1^^PC^1<NL> // Project loop
 DTM^193^**19960401**<NL> // Total project period (From).
 DTM^194^**19990331**<NL> // Total project period (Through).
 DTM^582^^^RD8^**19960401-19970331**<NL> // Report period (From-Through)
 PAM^A3^36^**MO**<NL> // Project duration in months
 YNQ^H4^Y^^**EXPLANATORY TEXT REGARDING LOBBYING ACTIVITIES**<NL> // Assurance/certification for lobbying.
 YNQ^6G^Y<NL> // Change in use of Vertebrate Animal

N9 Loop:

N9^F4^**M123456XB**^
FULL^**19960515**<NL> // Assurance of compliance number.
 // Type of review and IRB approval date.
 N9^Y9^A**9999-01**^
19960201<NL> // Animal welfare assurance number.
 // IACUC approval date.
 N9^L4^A<NL> // Updated abstract.
 MTX^^**THIS IS WHERE THE UPDATED ABSTRACT GOES**<NL>
 N9^L4^C.1<NL> // Change in level of effort of key personnel.
 MTX^^**For the next budget period, the level of effort for Copernicus increases to 9 months at 50% and 2 months at 100%, Newton will discontinue working on the project, and will be replaced by John A. Bashear with a level of effort of 50%.<NL>**
 N9^L4^I.7<NL> // Budget justification.
 MTX^^**THIS IS WHERE THE EXPLANATION FOR SIGNIFICANT REBUDGETING OF FUNDS GOES**<NL>
 N9^L4^E.4<NL> // Program income.
 MTX^^**\$50,000 FROM HOWARD HUGHES MEDICAL CENTER DURING BUDGET PERIOD 4/1/97-3/31/98**<NL>

N9^L4^I<NL>

MTX^^**THIS IS WHERE THE PROGRESS REPORT GOES**<NL> // Progress report text.

N9^L4^I.5<NL>

MTX^^**THIS IS WHERE THE EXPLANATION FOR UNOBLIGATED BALANCE GOES**<NL> // Estimated unobligated balance.

N9^L4^I.6<NL> // Invention indicator.

MTX^^**REPORTED**<NL> // Invention previously reported?

N9^43^^MATRIX<NL> // Gender and minority inclusion matrix

MTX^^**GENDER AND MINORITY INCLUSION STUDY TITLE GOES HERE.** <NL> // Study Title

INX Loop:

INX^1^1|A1|F2<NL> // Matrix start – absolute reference
// cells loaded horizontal, left to right.

K3^35<NL> // # of Indian males

K3^35<NL> // # of Asian males

K3^35<NL> // # of Black males

K3^35<NL> // # of Hispanic males

K3^35<NL> // # of White males

K3^70<NL> // # of Other males

K3^50<NL> // # of Indian females

K3^50<NL> // # of Asian females

K3^50<NL> // # of Black females

K3^50<NL> // # of Hispanic females

K3^50<NL> // # of White females

K3^100<NL> // # of Other females

PPL Loop:

PPL^^^^T<NL> // Begin total project budget.

PD Loop:

PD^CC^19970401^DO^1^ANY^^38<NL> // Requested budget period (From).

PDD^12<NL> // Budget period is for 12 months.

PD^CC^19970401^DO||8S^^ANY^^01^GALILEI, GALILEO
^PRINCIPAL INVESTIGATOR<NL> // Name and role of person.

PDD^12^4.8^^40<NL> // Appointment months = 12.
// 40% of 12 months = 4.8 months.
// 40% effort on project.

PD^CC^19970401^DO||8S^^ANY^^01^COPERNICUS, NICHOLAS
^RESEARCH ASSISTANT<NL> // Name and role of person.

PDD^11^6.49^^59<NL> // Appointment months = 11.
// (9 mon – academic, 2 mon – summer)
// Average % effort over 11 months is 59

PD^CC^19970401^DO||8S^^ANY^^01^BASHEAR, JOHN, A.
^STAFF SCIENTIST<NL> // Name and role of person.

PDD^12^6^^50<NL> // Appointment months = 12.
// 50% of 12 months = 6 months.
// 50% effort on project.

LX Loop:

LX^1<NL>

NM1^K8<NL> // Code for Indirect Cost Rate

N9^AH^^CURRENT^19960315<NL> // Date for the current indirect cost rate

HL Loop:

HL^2^1^26^1<NL> // Key person loop for Galileo.

QTY^37^.4<NL> // Galileo's level of effort is 40%.

LX Loop:

LX^1<NL>

NM1^9P^1^GALILEI^GALILEO^N<NL> // Identification of PI (name and role)

N2^UNIVERSITY OF BETHESDA<NL> // PI organization

N3^ATHEROSCLEROSIS RESEARCH UNIT^ // PI address
461 OCEAN BLVD., CSC-32<NL>
N4^BETHESDA^MD^20892<NL> // PI city, state, and zip code
PER^IC^^TE^3015551478^FX^3015552685^ // Telephone and fax of PI
EM^GGALILEI@UB.EDU<NL> // Email address of PI.
DMG^^19380303<NL> // Date of birth of PI

N9 Loop:

N9^19^^01^^^DP|MDK<NL> // Major subdivision and department of PI.
N9^SY^123456789<NL> // SSN of PI.
N9^L4^D.5<NL> // First publication for PI.

MTX^^*Nicholas Copernicus, Tycho Brahe, Galileo N. Galileo, Computer assisted identification and classification of infectious and parasitic diseases. Nucleic Acids Research. 38 (1994) 3696-3703.*<NL>

N9^L4^D.5<NL> // Next publication for PI.

MTX^^*Charlette E. Sitterly, Galileo N. Galileo, In vitro molecular techniques to study gene structure regulation in bacteria. Microbiol. 101 (Oct 1996) 989-996.*<NL>

HL Loop:

HL^3^2^OS^0<NL> // Active other support for Galileo
PAM^37^24^MO^F^82163^CC^ // Active support and annual direct costs
193^19981201^^194^20001130^^ // Support period start and end
14^20<NL> // Percent effort

LX Loop:

LX^1<NL>
NM1^92^2^NATIONAL SCIENCE // Name of OS source
FOUNDATION<NL>

N9 Loop:

N9^CT^DCB950000<NL> // OS project number
MTX^^*Liposome Membrane Composition and Function*<NL> // OS project title
N9^K5^^GOALS<NL> // OS goals

MTX^^*The major goals of this project are to define biochemical properties of liposome membrane components and maximize liposome uptake into cells.*<NL>

N9^YV^^OVERLAP<NL> // OS overlap

MTX^^*There is scientific overlap between aim 2 of NSF DCB 950000 and aim 4 of the application under consideration. If both are funded, the budgets will be adjusted appropriately in conjunction with agency staff.*<NL>

HL Loop:

HL^4^1^26^0<NL> // Key person loop for Copernicus.

QTY^37^.32<NL> // Copernicus' level of effort is 32%.

LX Loop:

LX^1<NL>

NM1^9K^1^*COPERNICUS^NICHOLAUS*<NL> // Key person name.

EMS^*RESEARCH ASSISTANT*<NL> // Role of key person.

HL Loop:

HL^5^1^26^0<NL> // Key person loop for Newton.

QTY^37^.25<NL> // Newton's level of effort is 25%.

LX Loop:

LX^1<NL>

NM1^9K^1^*NEWTON^ISAAC*<NL> // Key person name.

EMS^*STAFF SCIENTIST*<NL> // Role of key person.

HL Loop:

HL^6^1^26^1<NL> // Key person loop for Bashear.

LX Loop:

LX^1<NL>

NM1^9K^1^*BASHEAR^JOHN^A*<NL> // Key person name.

EMS^*STAFF SCIENTIST*<NL> // Role of key person.

HL Loop:

HL^7^6^OS^0<NL> // Active other support for Bashear

PAM^37^24^MO^F^104428^CC^
193^19940401^^194^19990331^^
14^47.5<NL> // Active support and annual direct costs
// Support period start and end
// Average of academic and summer periods

LX Loop:

LX^1<NL>

NM1^92^2^NIH/NCI<NL> // Name of OS source

N9 Loop:

N9^CT^5RO1CA0000007<NL> // OS project number

MTX^^*Gene Therapy for Small Cell Lung Carcinoma* <NL> // OS project title

N9^K5^^GOALS<NL> // OS goals

MTX^^*The major goals of this project are to use viral strategies to express the normal p53 gene in human SCLC cell lines and to study the effect of growth and invasiveness of the lines.*<NL>

N9^YV^^OVERLAP<NL> // OS overlap

MTX^^*Potential commitment overlap for Dr. Bashear between 5 RO1 CA 00000-07 and the application under consideration. If the application under consideration is funded with Dr. Bashear committed at 50% effort, Dr. Bashear will request approval to reduce his effort on the NCI grant.*<NL>

SE^120^123456789<NL> // Transaction set trailer.