

194 Grant or Assistance Application

Functional Group ID=**GT**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Grant or Assistance Application Transaction Set (194) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by organizations submitting applications for grants, cooperative agreements, and other assistance. These applications will typically include project, budget, personnel, descriptive, and other related data.

Notes:

1. Organizations use this transaction set to submit a Grant or Assistance Application to a Federal Agency. This application may be in the form of an unsolicited proposal, or a response to a general announcement, a specific agency request, or an annual solicitation.

2. Organizations also use this transaction set to submit budgets or revised budgets for previously submitted applications and to submit professional profiles.

3. Federal Agencies use this transaction set to respond with proposed or approved budgets.

4. A single transmission of this transaction set shall be used to submit the application or budget for one project only. It may be used to transmit one or more professional profiles.

5. In this convention, the term grant includes: grant award, research contract, and cooperative agreement.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
4	0100	ST	Transaction Set Header	M	1		
5	0200	BGN	Beginning Segment	M	1		
10	0300	DTM	Date/Time Reference	O	>1		
Not Used	0400	LDT	Lead Time	O	>1		
12	0500	PWK	Paperwork	O	>1		
						LOOP ID - N9	>1
15	0600	N9	Reference Identification	O	1		
Not Used	0700	L11	Business Instructions and Reference Number	O	>1		
19	0800	MTX	Text	O	>1		
						LOOP ID - NM1	>1
20	0900	NM1	Individual or Organizational Name	O	1		
24	1000	N2	Additional Name Information	O	2		
25	1100	N3	Address Information	O	2		

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26	1200	N4	Geographic Location	O	1
27	1300	N9	Reference Identification	O	>1
30	1400	PER	Administrative Communications Contact	O	>1

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
						>1	
32	0100	HL	Hierarchical Level	M	1		
36	0200	QTY	Quantity	O	>1		
Not Used	0300	AMT	Monetary Amount	O	>1		
38	0500	DTM	Date/Time Reference	O	>1		
40	0600	PAM	Period Amount	O	>1		
Not Used	0700	HSD	Health Care Services Delivery	O	>1		
45	0800	NX1	Property or Entity Identification	O	>1		
55	0900	YNQ	Yes/No Question	O	>1		
						>1	
63	1000	N9	Reference Identification	O	1		
70	1050	L11	Business Instructions and Reference Number	O	>1		
71	1100	MTX	Text	O	>1		
						>1	
72	1200	INX	Index Detail	O	1		
74	1300	K3	File Information	M	>1		
						>1	
Not Used	1400	PO1	Baseline Item Data	O	1		
Not Used	1600	MTX	Text	O	>1		
						>1	
76	1700	PPL	Price Support Data	O	1		
Not Used	1800	REF	Reference Identification	O	>1		
						>1	
78	1900	PD	Pricing Data	O	1		
89	2000	PDD	Pricing Data Detail	O	>1		
						>1	
Not Used	2100	PL	Proposal Cost Logic	O	1		
Not Used	2200	REF	Reference Identification	O	>1		
Not Used	2300	AMT	Monetary Amount	O	1		
Not Used	2400	PCT	Percent Amounts	O	1		
Not Used	2500	QTY	Quantity	O	1		
Not Used	2600	NTE	Note/Special Instruction	O	>1		
						>1	
Not Used	2700	PD	Pricing Data	O	1		
Not Used	2800	SPI	Specification Identifier	O	1		
Not Used	2900	REF	Reference Identification	O	>1		
Not Used	3000	PDD	Pricing Data Detail	O	>1		
Not Used	3100	MTX	Text	O	>1		
Not Used	3200	DTM	Date/Time Reference	O	10		

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LOOP ID - LX					>1
91	3300	LX	Assigned Number	O	1
92	3400	NM1	Individual or Organizational Name	O	1
98	3500	N2	Additional Name Information	O	2
99	3600	N3	Address Information	O	2
100	3700	N4	Geographic Location	O	1
102	3750	PER	Administrative Communications Contact	O	>1
104	3800	DMG	Demographic Information	O	>1
106	3900	EMS	Employment Position	O	1
LOOP ID - N9					>1
108	4000	N9	Reference Identification	O	1
Not Used	4050	L11	Business Instructions and Reference Number	O	>1
113	4100	MTX	Text	O	>1
LOOP ID - DEG					>1
114	4200	DEG	Degree Record	O	1
116	4300	FOS	Field of Study	O	>1
117	4400	N1	Name	O	>1
LOOP ID - K2					>1
Not Used	4500	K2	Administrative Message	O	1
Not Used	4600	N9	Reference Identification	O	>1
Not Used	4700	NM1	Individual or Organizational Name	O	>1
119	4800	SE	Transaction Set Trailer	M	1

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes:

- Semantic Notes:**
- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
 - 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 194 Grant or Assistance Application	
M	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>This unique control number is assigned by the originator of the transaction set or by the originator's application program. This same number is carried in SE02.</i>	
Not Used	ST03	1705	Implementation Convention Reference	O AN 1/35
			Reference assigned to identify Implementation Convention	

Segment: **BGN** Beginning Segment
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	BGN01	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		00 Original	
		<i>Use to indicate the first transmission of a transaction set, other than a preapplication.</i>	
		01 Cancellation	
		<i>Use to indicate the cancellation of a previous transmission.</i>	
		05 Replace	
		<i>Use to indicate that a change has been made to a previous transmission. When used, all data, whether changed or not, must be retransmitted. When used, the retransmitted data will overwrite the information in the receiving database.</i>	
		07 Duplicate	
		<i>Use to indicate the retransmission of a previous transaction set. Use only when the receiving organization requests a retransmission because the receiving application system either did not receive the original transmission or received it incorrectly.</i>	
		24 Draft	
		<i>Use to indicate a preapplication as authorized in Federal agency instructions.</i>	
M	BGN02	127 Reference Identification	M AN 1/30
		Reference information as defined for a particular Transaction Set or as	

			specified by the Reference Identification Qualifier	
			<i>Identify the grant applicant's unique identifier for this application.</i>	
M	BGN03	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			<i>Identify the date of the transaction set creation. This is the date the application was submitted.</i>	
	BGN04	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			<i>Preferred time format is HHMMSS.</i>	
	BGN05	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			LT Local Time	
	BGN06	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			<i>Use is REQUIRED, if applicable, to identify the unique number associated with a solicitation or announcement as released by the Federal Agency to which this application is responding. Identify the title of the solicitation or announcement in 1/N9/0600 loop (N901 code KS).</i>	
Must Use	BGN07	640	Transaction Type Code	O ID 2/2
			Code specifying the type of transaction	
			<i>1. Codes 07, 6A, 6C, 6N, 6R, 6S, FG, S4, and TS are used only by a grant applicant.</i>	
			<i>2. Codes 65 and FM are used only by Federal Agencies.</i>	
			07 Budget	
			<i>Use to indicate a budget-only submission or re-submission to a previously submitted complete application.</i>	
			<i>When this code is used, grant applicants provide only the minimal information to correctly identify the submission and complete budget data. Use only the following segments/loops (conflicting implementation convention instructions</i>	

concerning REQUIRED data and contained in segment, element, or code value notes in other segments may be ignored):

1/ST/0100

1/BGN/0200

1/NM1/0900 loop using only NM101 codes BY, SE, and 1B

2/HL/0100 loop for the Project, and any Subprojects, or Consortiums only

2/PPL/1700 loop to provide the budget detail

2/SE/4800

65	Award Notification <i>Use to indicate a budget approved by a Federal Agency for an award. Use the segments as instructed in code 07 plus code CT in 1/N9/0600.</i>
6A	Accomplishment Based Renewal
6C	Competitive Renewal
6N	Non-competitive Renewal
6R	Resubmission <i>Use to indicate a resubmission of an application submitted to the same Federal Agency that was disapproved or unfunded in a previous grant application cycle.</i>
6S	Supplemental <i>Use to indicate that this application is a request for an adjustment in the budget to an existing award.</i>
79	Continuation <i>Use to indicate that this application is a Continuation.</i>
FG	Filing <i>Use to indicate the submission of a professional profile.</i>
FM	Funding Modification <i>Use to indicate a budget proposed by the Federal agency to the grant applicant. Use the segments as instructed in code 07 plus, if applicable, code CT in 1/N9/0600.</i>
S4	Submission <i>Use to indicate the submission of a new application.</i>
TS	Transfer Statement <i>Use to indicate an application which is the result of a transfer of the grant award from one organization to another.</i>

		U5	Update	
				<p><i>1. Use to indicate that this application is a Revision. Types of Revisions may be indicated in BGN08.</i></p> <p><i>2. If the revision is other than those identified in BGN08, use N901/0600, code SZ and specify the other type in N903.</i></p>
BGN08	306	Action Code		O ID 1/2
			Code indicating type of action	
		2	Change (Update)	
				<p><i>Use in conjunction with BGN07 code 6S to indicate a proposed adjustment in the budget of an existing award that neither increases nor decreases the grant total amount.</i></p>
		51	Complete	
				<p><i>Use in conjunction with BGN07 code U5 to indicate the revision is a decrease in duration and AND a decrease in amount.</i></p>
		A6	Modified	
				<p><i>1. Use in conjunction with BGN07 code FM to indicate a proposed adjustment in the budget of an existing award.</i></p> <p><i>2. Use in conjunction with BGN07 code 65 to indicate an approved adjustment in the budget of an existing award.</i></p>
		AA	Award	
				<p><i>1. Use in conjunction with BGN07 code FM to indicate a budget proposed for a new award or renewal.</i></p> <p><i>2. Use in conjunction with BGN07 code 65 to indicate an approved budget for a new award or renewal.</i></p>
		AD	Decrease in Amount	
				<p><i>1. Use in conjunction with BGN07 code 6S to indicate a proposed downward adjustment in the budget of an existing award.</i></p> <p><i>2. Use in conjunction with BGN07 code U5 to indicate that the revision is a decrease in amount.</i></p>
		AI	Increase in Amount	
				<p><i>1. Use in conjunction with BGN07 code 6S to</i></p>

indicate a proposed upward adjustment in the budget of an existing award.

2. Use in conjunction with BGN07 code U5 to indicate the revision is a increase in amount.

DF Defer

Use in conjunction with BGN07 code U5 to indicate the revision is both a decrease in duration AND and increase in amount.

DG Decrease

Use in conjunction with BGN07 code U5 to indicate the revision is an increase in duration.

I Reissue

Use in conjunction with BGN07 to indicate that the revision is both an increase in duration AND a decrease in amount.

IM Increase

Use in conjunction with BGN07 code U5 to indicate that the revision is an increase in duration.

RG Refer

Use in conjunction with BGN code U5 to indicate that the revision of both an increase in duration AND an increase in amount.

BGN09 786 Security Level Code O ID 2/2

Code indicating the level of confidentiality assigned by the sender to the information following

1. Use to identify the highest level of government security classification applicable to the data contained within this transaction. Do not use if not classified.

2. Prior notification must be made with the receiving Federal Agency and appropriate security steps taken before classified data can be transmitted using EDI.

92 Government Confidential

93 Government Secret

Segment: **DTM** Date/Time Reference

Position: 0300

Loop:

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

- Notes:**
1. Use this DTM segment to identify the date the applicant's offer expires.
 2. When the applicant organization is applying for Small Business Innovation Research (SBIR) or Small Business Technology Transfer (STTR) assistance, use to identify the date the for-profit company was founded.

Data Element Summary

Ref.	Data	Element	Name	Attributes
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		036	Expiration	
			<i>Use to indicate the date this offer is withdrawn by the applicant organization from Federal Agency consideration for award.</i>	
		145	Opening Date	
			<i>Use only for SBIR and STTR applications to indicate the date the company was founded.</i>	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3

Not Used	DTM06	1251	Code indicating the date format, time format, or date and time format Date Time Period	X AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

Segment: **PWK** Paperwork
Position: 0500
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the type or transmission or both of paperwork or supporting information
Syntax Notes: 1 If either PWK05 or PWK06 is present, then the other is required.
Semantic Notes:
Notes: *Use this PWK segment to indicate that information related to the application is being provided by means other than this EDI transaction set.*

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	PWK01	755	Report Type Code	M ID 2/2
			Code indicating the title or contents of a document, report or supporting item	
		AE	Attachment	
				<i>Use to indicate that SOME supplementary technical information is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code SD.</i>
		C1	Cost Data Summary	
				<i>Use to indicate that the cost and price (budget) data is being provided by means other than this transaction set.</i>
		SD	Support Data for a Request for Quote	
				<i>Use to indicate that ALL technical data is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code AE.</i>
	PWK02	756	Report Transmission Code	O ID 1/2
			Code defining timing, transmission method or format by which reports are to be sent	
		BM	By Mail	
				<i>Use to indicate transmittal via the United States Postal Service (USPS).</i>
		CF	Courier	
				<i>Use to indicate transmittal via commercial express courier. Use in conjunction with PWK04/05/06.</i>
		DA	Data	
				<i>Use to indicate other forms of electronic transfer. When used, identify the other form in PWK07.</i>

			EL	Electronically Only <i>Use to indicate that data was sent by a separate EDI transaction set. When used, identify the unique number of the transaction set in N902 of the I/N9/0600 segment citing code TN in N901.</i>
			EM	E-Mail <i>Use to indicate E-Mail.</i>
			FX	By Fax
			IA	Electronic Image <i>Use to indicate the World Wide Web. When used, provide the Universal Resource Locator (URL) where information is to be obtained in PWK07.</i>
Not Used	PWK03	757	Report Copies Needed	O N0 1/2 The number of copies of a report that should be sent to the addressee
	PWK04	98	Entity Identifier Code	O ID 2/3 Code identifying an organizational entity, a physical location, property or an individual
			CA	Carrier <i>Use in conjunction with PWK02 code CF, PWK05/06 to identify the carrier.</i>
	PWK05	66	Identification Code Qualifier	X ID 1/2 Code designating the system/method of code structure used for Identification Code (67) <i>While the Federal EDI program uses the Data Universal Numbering System (DUNS) and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.</i>
			1	D-U-N-S Number, Dun & Bradstreet <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>
			33	Commercial and Government Entity (CAGE)
	PWK06	67	Identification Code	X AN 2/80 Code identifying a party or other code <i>Use to identify the DUNS number, DUNS+4 number or CAGE code of the carrier.</i>
	PWK07	352	Description	O AN 1/80 A free-form description to clarify the related data elements and their

content

1. When PWK02 is code DA, use to identify the other form of electronic transfer.

2. When PWK02 is code IA, use to provide the Universal Resource Locator (URL) where information is to be obtained.

Not Used	PWK08	C002	Actions Indicated	O
			Actions to be performed on the piece of paperwork identified	
Not Used	C00201	704	Paperwork/Report Action Code	M ID 1/2
			Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required	
Not Used	C00202	704	Paperwork/Report Action Code	O ID 1/2
			Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required	
Not Used	C00203	704	Paperwork/Report Action Code	O ID 1/2
			Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required	
Not Used	C00204	704	Paperwork/Report Action Code	O ID 1/2
			Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required	
Not Used	C00205	704	Paperwork/Report Action Code	O ID 1/2
			Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required	
Not Used	PWK09	1525	Request Category Code	O ID 1/2
			Code indicating a type of request	

Segment: **N9 Reference Identification**
Position: 0600
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Notes: *When BGN07 is code 65, 6A, 6C, 6N, 6R, 6S, FM, S4, or TS use of this N9 loop is **REQUIRED**.*

When portions of the application are being transmitted as objects using transaction set 102, use code OIC in N901. Provide the TS 102, Associated Object Reference Identification, in N902, and identify the portion of the application in N903.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		2S Catalog	<i>Use to indicate the primary Catalog of Federal Domestic Assistance program number applicable to this application.</i>
		4W Study	<i>When BGN07 is code 6A, 6C, 6N, 6R, S4 or TS, use is REQUIRED to indicate the application title. Cite the word TITLE in N903 and use the 1/MTX/0800 to cite the title.</i>
		6M Application Number	<i>When BGN07 is code 6R (Resubmission), use to indicate the application number of the original submission.</i>
		CT Contract Number	<i>When BGN07 is code 65, 6A, 6C, 6N, 6S, FM, or TS use is REQUIRED to indicate the award identification.</i>

KS	Solicitation <i>Use to indicate the title of the solicitation or announcement identified in BGN06. Cite the word SOURCE in N903 and use the 1/MTX/0800 to cite the solicitation title.</i>
L4	Proposal Paragraph Number <i>Use to identify a special program cross-cut type of grant application. Use one of the codes listed in N902.</i>
OIC	Object Identifier <i>Use to indicate that a portion of the application is being transmitted as an object using Transaction Set 102. Identify the object using N902-3.</i>
P4	Project Code <i>Use to indicate the project number applicable to the application.</i>
PID	Program Identification Number <i>Use to indicate a code identifying a Federal program, or if a code is not known, the Federal program name. Use of a code is preferred. Cite the code in N902; cite the program name in N903.</i>
SZ	Specification Revision <i>Use in conjunction with BGN08 code U5 to indicate that the revision is an "Other" type revision. Use N903 to specify "Other".</i>
TN	Transaction Reference Number <i>Use to indicate the unique number of a related transaction set. When used, cite the unique number in N902, code 7U in N907-01, and the X12 transaction set numeric identifier in N907-02.</i>
WK	Type of Science Code <i>Use multiple occurrences of this loop as needed to indicate in N902 a keyword or thesaurus code for the area of science to which the application applies, or use N903 to provide free-form descriptive words.</i>

N902 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When N901 is code L4 use one of the following codes J.1 - J.22:

- J.1 *Beginning Investigator***
- J.2 *Small Grant For Exploratory Research***
- J.4 *Facilitation for Scientific & Engineers with Disabilities***
- J.5 *Research Opportunity Award***

- J.6** *Single Investigator*
J.7 *Young Investigator*
J.8 *Small Business Innovative Research Program*
J.9 *Small Business Technology Transfer Program*
J.10 *Research Instrumentation Program*
J.11 *Historically Black College or University/Minority Institution Award*
J.12 *Agriculture Research Enrichment Award*
J.13 *Augmentation Awards for Science and Engineering Research Training*
J.14 *Defense Experimental Program to Stimulate Competitive Research*
J.15 *Experimental Program to Stimulate Competitive Research*
J.16 *Short Term Innovative Research*
J.17 *University Innovative Research*
J.18 *University Research Initiative*
J.19 *Environmental Research Initiative*
J.20 *Automatic Target Recognition*
J.21 *Infrastructure Support Instrument*
J.22 *Multi Disciplinary University Research Initiative Program*

Use to indicate the Associated Object Reference Identification when Transaction Set 102 is used to transmit a portion of the application as associated data. Use the value in ORI01 of TS 102.

	N903	369	Free-form Description Free-form descriptive text	X	AN 1/45
			<i>Use to indicate the portion of the application being transmitted as associated data using Transaction Set 102.</i>		
Not Used	N904	373	Date Date expressed as CCYYMMDD	O	DT 8/8
Not Used	N905	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	TM 4/8
Not Used	N906	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID 2/2
	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	
			<i>When N901 is code TN, use is REQUIRED to reference the applicable</i>		

<i>X12 transaction set.</i>					
M	C04001	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		
			7U		Related Transaction Reference Number
					<i>When N901 is code TN, use is REQUIRED to qualify the number in N907-02 as the applicable X12 transaction set.</i>
M	C04002	127	Reference Identification	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
					<i>When C04001 is code 7U, use is REQUIRED to identify the X12 transaction set numeric designation, e.g. 864 to indicate an Accredited Standards Committee (ASC) X12 864 Text Message transaction set.</i>
Not Used	C04003	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	MTX Text
Position:	0800
Loop:	N9 Optional
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify textual data
Syntax Notes:	<ol style="list-style-type: none"> 1 If MTX01 is present, then MTX02 is required. 2 If MTX03 is present, then MTX02 is required. 3 If MTX05 is present, then MTX04 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MTX05 is the number of lines to advance before printing.
Notes:	<ol style="list-style-type: none"> 1. <i>When 1/N901/0600 is code 4W, use of this MTX segment is REQUIRED to identify the application title.</i> 2. <i>When 1/N901/0600 is code KS, use of this MTX segment is REQUIRED to identify the title of the Federal solicitation to which this application is responding.</i>

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Not Used	MTX01	363 Note Reference Code Code identifying the functional area or purpose for which the note applies	O ID 3/3
Must Use	MTX02	1551 Message Text To transmit large volumes of message text	X AN 1/4096
	MTX03	1551 Message Text To transmit large volumes of message text	O AN 1/4096
Not Used	MTX04	934 Printer Carriage Control Code A field to be used for the control of the line feed of the receiving printer	X ID 2/2
Not Used	MTX05	1470 Number A generic number	O N0 1/9
Not Used	MTX06	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O ID 2/3

Segment:	NM1 Individual or Organizational Name
Position:	0900
Loop:	NM1 Optional (Must Use)
Level:	Heading
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To supply the full name of an individual or organizational entity
Syntax Notes:	<ol style="list-style-type: none"> 1 If either NM108 or NM109 is present, then the other is required. 2 If NM111 is present, then NM110 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 NM102 qualifies NM103.
Notes:	<p><i>1. Use this NM1 loop only to identify the organizations and individuals associated with the business process of submitting the grant application. Use the 2/NM1/3400 segment to identify project personnel.</i></p> <p><i>2. At least 3 iterations of this NM1 loop are REQUIRED using NM101 code BY to identify the Federal Agency to receive the application, code SE to identify the grant applicant organization, and code 1B to identify the applicant organization authorizing individual. Use the 1/PER/1400 segment to identify the Federal Agency point of contact associated with code BY.</i></p> <p><i>3. Use this NM1 loop to indicate the organization submitting a professional profile and the Federal Agency receiving it. Two iterations of this NM1 loop are REQUIRED using code FN to identify the filing organization and code KU to identify the receiving Federal agency or database.</i></p> <p><i>4. Whenever possible, identify the organization using only a qualifier and number in NM108/09 along with the appropriate codes in NM101/02. The organization's full address was established at the time of registration as a Federal Government trading partner. Where no qualified number is available, specify the organization's name in the NM103 (and 1/N2/1000 as needed) and the full address in 1/N3/1100-1/N4/1200.</i></p>

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
M	<p>NM101</p> <p>98 Entity Identifier Code</p> <p>Code identifying an organizational entity, a physical location, property or an individual</p> <p>1B Applicant</p> <p><i>Use is REQUIRED to indicate the grant application authorizing individual in NM103/04. This is the person associated with the grant applicant organization, code SE. Specify the authorizing individual's address in 1/N3/1100 - 1/N4/1200 if different from the grant application organization, code SE.</i></p>	M ID 2/3

2C	Co-Participant <i>Use any number of iterations to indicate an additional organization (beyond the applicant [code SE]) participating in a collaborative proposal.</i>
AD	Party to be advised (Written orders) <i>Use to indicate the business officer for the grant applicant. Specify the business officer's address in 1/N3/1100-1/N4/1200 if different from the grant application organization, code SE.</i>
AZ	Previous Name <i>Use to indicate a predecessor principal investigator in the previous award.</i>
BY	Buying Party (Purchaser) <i>Use is REQUIRED in an application to indicate the Federal Agency to which the application is being submitted.</i>
FA	Facility <i>Use to indicate the principal place of performance in NM108/09 when other than the address identified with code SE. Use 2/NM101/3400 code 61 to identify the place of performance associated with each appropriate HL loop.</i>
FN	Filer Name <i>Use is REQUIRED in a professional profile to indicate the organization filing the professional profile(s).</i>
II	Interested Party <i>Use to indicate entities or locations that are "Areas Affected by Project".</i>
IAM	Company which Holds Interest <i>Use to indicate if the application is being submitted to another agency. Multiple occurrences of this code may be used.</i>
KU	Receiver Site <i>Use is REQUIRED in a professional profile to indicate the receiving Federal agency or Federal database.</i>
S1	Parent <i>Use to identify the parent organization of an organization used in another iteration of this 1/NM1/0900 loop. When used, must also use NM110 and NM111.</i>
SE	Selling Party

1. Use is REQUIRED in an application (1/BGN07/0200 is code 07, 6A, 6C, 6N, 6S, TS, or S4) to indicate the grant applicant organization.

2. When the applicant organization is applying for SBIR or STTR assistance, identify the date the for-profit company was founded in 1/DTM/0300.

M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity	M	ID 1/1
		1	Person <i>When NM101 is code AD, AZ, or 1B, use of NM103/04 is REQUIRED to indicate the name of the individual, using NM105/06/07 as needed.</i>		
		2	Non-Person Entity <i>Use with NM101 codes 2C, BY, FA, FN, KU, S1, and SE to indicate that the entity being identified is an organization.</i>		
	NM103	1035	Name Last or Organization Name Individual last name or organizational name	O	AN 1/60
	NM104	1036	Name First Individual first name	O	AN 1/35
	NM105	1037	Name Middle Individual middle name or initial	O	AN 1/25
	NM106	1038	Name Prefix Prefix to individual name	O	AN 1/10
	NM107	1039	Name Suffix Suffix to individual name	O	AN 1/10
	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) <i>While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.</i>	X	ID 1/2
		1	D-U-N-S Number, Dun & Bradstreet <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>		
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>		
		10	Department of Defense Activity Address Code (DODAAC)		

Use in conjunction with NM101 code BY to indicate a Department of Defense (DoD) or Civilian Agency Activity Address Code.

33 Commercial and Government Entity (CAGE)
Use to indicate the specified organization's CAGE code.

SI Standard Industry Code (SIC)
Use to report the North American Industry Classification System (NAICS) code or the Standard Industry Code of the applicant organization.

NM109 67 Identification Code X AN 2/80
 Code identifying a party or other code

NM110 706 Entity Relationship Code X ID 2/2
 Code describing entity relationship
 01 Parent

NM111 98 Entity Identifier Code O ID 2/3
 Code identifying an organizational entity, a physical location, property or an individual

Use any code below to indicate the NM101 code of the organization which is subordinate to the organization identified in NM103 and/or NM108-9.

For example, if in a previous NMI iteration NM101 was code SE and NM103 was the National Institutes of Health, then this NMI could have S1 in NM101, Health and Human Services in NM103, 01 in NM110 and SE in NM111 to identify that HHS is the parent organization of NIH.

20 Foreign Supplier
 BY Buying Party (Purchaser)
 FA Facility
 SE Selling Party

Segment: **N2 Additional Name Information**

Position: 1000

Loop: NM1 Optional (Must Use)

Level: Heading

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Syntax Notes:

Semantic Notes:

Notes: *Use if the name of the organization or individual cannot be fully accommodated in 1/NM103,04,05,06,07/0900.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
M	N201	93	Name Free-form name	M AN 1/60
	N202	93	Name Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 1100
Loop: NM1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Notes:

Use to provide a street address for the organization or individual identified in I/NM103,04,05,06,07/0900 if it cannot be provided by a code in I/NM108,09/0900 or if it differs from the geographic information associated with the code.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information	Address information	M AN 1/55
	N302	166	Address Information	Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 1200
Loop: NM1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

Semantic Notes:

Notes: *Use to provide a city, state or province, postal code and other required information for a complete address for the organization or individual identified in 1/NM103,04,05,06,07/0900 if it cannot be provided by a code in 1/NM108,09/0900 or if it differs from the geographic information associated with the code.*

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26 Country Code Code identifying the country <i>Use only when outside US.</i>	X ID 2/3
N405	309 Location Qualifier Code identifying type of location CY County/Parish <i>When NM101 is code SE, use to indicate the county of the applicant as specified in the Federal Agency grant application instructions.</i>	X ID 1/2
N406	310 Location Identifier Code which identifies a specific location	O AN 1/30
Not Used	N407 1715 Country Subdivision Code Code identifying the country subdivision	X ID 1/3

Segment: **N9 Reference Identification**
Position: 1300
Loop: NM1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Notes: *Use multiple repetitions of this N9 segment as needed to identify additional numbers and information regarding organizations and individuals specified in the 1/NM1/0900 loop.*

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		19 Division Identifier	
			<p><i>1. When NM101 is code BY, use to indicate the name of the receiving Federal Agency's division or office responsible for the program to which the applicant is applying. Cite the name in N903.</i></p> <p><i>2. When NM101 is code SE, use to indicate the major subdivision name of the grant applicant organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.</i></p>
		5C Congressional District	
			<i>When NM101 is code SE, use to indicate the Congressional District of the grant applicant.</i>
		6M Application Number	
			<i>Use only in conjunction with 1/NM101/0900 code 2C to identify the application number submitted by the additional organization participating in the collaborative proposal.</i>
		CR Customer Reference Number	
			<i>When NM101 is code SE, use to indicate an identification number assigned to the grant</i>

applicant organization by the Federal Agency receiving the application.

EI Employer's Identification Number
When NM101 is code SE, use to indicate the grant applicant's Entity Identification Number, if available, or Employer Identification Number. Transmit as a continuous number with no extraneous characters or spaces.

JD User Identification
Use to indicate the Government User Identifier. Use with NM101 codes 1B and AD to provide unique identification of the authorizing official and their representative(s).

P5 Position Code
When NM101 is code 1B or AD, use is REQUIRED to indicate the job title of the individual. Cite the title in N903.

TJ Federal Taxpayer's Identification Number
When NM101 is code SE, use to indicate the grant applicant's Federal Taxpayer's Identification Number (TIN). For individuals without a TIN, cite the individual's Social Security Account Number. Transmit as a continuous number with no extraneous characters or spaces.

URL Uniform Resource Locator

	N902	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	N903	369	Free-form Description	X	AN 1/45
			Free-form descriptive text		
Not Used	N904	373	Date	O	DT 8/8
			Date expressed as CCYYMMDD		
Not Used	N905	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
Not Used	N906	623	Time Code	O	ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		

	N907	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
M	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			DP Department Number	
			<i>When N901 is code 19, use to indicate the department, service, laboratory, or equivalent level within the major subdivision (code 19) of the grant applicant organization. For example, Department of Industrial Engineering or Sales Department.</i>	
M	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **PER** Administrative Communications Contact
Position: 1400
Loop: NM1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Notes:

1. Use multiple repetitions as needed to identify communications numbers associated with individuals or organizations identified in the 1/NM1/0900 segment.

2. When 1/NM101/0900 is code IB or AD, use is **REQUIRED**. Use is optional with codes BY and SE.

Data Element Summary

Ref.	Data			Attributes
Des.	Element	Name		
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
		IC	Information Contact	
	PER02	93	Name	O AN 1/60
			Free-form name	
			<i>When 1/NM101/0900 is code BY or SE, use to identify the name of a point of contact. Last name, followed by first name, is preferred. If the whole name is longer than 35 characters, the use of an initial for the first name is recommended.</i>	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
		TE	Telephone	
	PER04	364	Communication Number	X AN 1/256
			Complete communications number including country or area code when applicable	
			<i>The telephone number shall be transmitted as a continuous number with no extraneous characters. Include the country code and area code. If an extension applies to the telephone number, concatenate the letter X plus the extension at the end of the number, e.g., 17035551212X123.</i>	
	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	

		FX	Facsimile	
PER06	364	Communication Number		X AN 1/256
		Complete communications number including country or area code when applicable		
		<i>The fax number shall be transmitted as a continuous number with no extraneous characters. Include the country code and area code.</i>		
PER07	365	Communication Number Qualifier		X ID 2/2
		Code identifying the type of communication number		
		EM	Electronic Mail	
PER08	364	Communication Number		X AN 1/256
		Complete communications number including country or area code when applicable		
PER09	443	Contact Inquiry Reference		O AN 1/20
		Additional reference number or description to clarify a contact number		
		<i>Use to provide the office symbol, mail stop, or organization routing code of the individual cited in PER02.</i>		

Segment: **HL** Hierarchical Level
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:**Semantic Notes:****Notes:**

- 1. Use this HL loop to identify project organization, personnel, technical data, and budget data associated with the application, budget or professional profile.*
- 2. The transaction set hierarchy for an application (1/BGN07/0200 is code 6A, 6C, 6N,6R,6S, S4 or TS) as defined by this HL loop shall be:

 - a. The Project (PC) loop shall be the first iteration of the HL loop.*
 - b. The Project loop must have at least one Key Person (26) loop to identify the principal investigator. Additional Key Person loops may be included to identify other project personnel as needed.*
 - c. The Project loop may have any number of subordinate Sub-project (SP), Consortium (CO), Human Subject Care Group (4), or Animal Subject (AS) loops.*
 - d. Sub-project and Consortium loops may have any number of subordinate Sub-project, Consortium, Key Person, human subject Care Group, or Animal Subject loops.*
 - e. Key Person loops may have any number of subordinate Other Support (OS) loops.*
 - f. Animal Subject loops may have any number of subordinate Animal Subject loops, but only if the subordinate loop contains a subset of animals of the same species.**
- 3. The transaction set hierarchy for a budget (1/BGN07/0200 is code 07, 65, or FM) as defined by this HL loop shall be:

 - a. The Project (PC) loop shall be the first iteration of the HL loop.*
 - b. The Project loop may contain any number of subordinate Sub-project (SP), Consortium (CO) loops.*
 - c. Any Sub-project and Consortium loops may have any number of additional subordinate Sub-project, Consortium loops.*
 - d. The Project loop (and, if any, subordinate Sub-project or Consortium loops) must consist only of one or more 2/PPL/1700 loops.**
- 4. The transaction set hierarchy for a professional profile (1/BGN07/0200 is code FG) as defined by this HL loop shall be one or more Key Person loops, with no subordinate loops.*
- 5. The term "project" in the following implementation notes is used generically to identify dates, quantities, etc. related to the Project and subordinate Sub-projects and/or Consortiums. The terms "Project loop", "Sub-project loop",*

and "Consortium loop" are not interchangeable. They are used to distinguish between the efforts and to establish the precise hierarchical relationship between them.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
		<i>In the first iteration of this HL loop, cite the number 1. Increment by 1 for each subsequent iteration of the loop.</i>	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
		<i>Use to identify the HL01 sequence number of the loop which is the parent loop to the current HL loop iteration.</i>	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		<i>Select a code to indicate that the current HL loop iteration is one of the following loop types: Project, Sub-project, Consortium, Key Person, Other Support, Animal Subject, or human subject Care Group.</i>	
		4 Group	
		<i>Use to indicate a human subject Care Group loop. A Care Group loop must have the Project, a Sub-project, or a Consortium loop as its parent.</i>	
		26 Member	
		<i>1. Use to indicate a Key Person loop. In an application:</i>	
		<i>a. Use one loop iteration to identify a single key person. At least one Key Person loop must be included under the project loop to identify the Principal investigator.</i>	
		<i>b. Also use this loop when the individual has active, pending or planned other support.</i>	
		<i>c. A Key Person loop must have the Project, a Sub-project, or a Consortium loop as its parent. For each Key Person with other support a subordinate Other Support loop is REQUIRED for each other support project to identify the level of support, the organization providing the support, and other related data.</i>	

2. In a professional profile, one or more single Key Person loop iterations may be used. Each Key Person loop will provide the professional profile of a single individual. The Key Person loop will be the only type of loop without any parent or subordinate loops.

AS Animal Subject Group
Use to indicate an Animal Subject loop. An Animal Subject loop must have the Project, a Sub-project, a Consortium, or other Animal Subject loop as its parent. Animal Subject loops only apply to vertebrate animals.

CO Consortium
Use to indicate a Consortium loop. A Consortium loop must have the Project, a Sub-project, or other Consortium loop as its parent. This consortium loop may also be used to indicate sub awards.

OS Support
1. In an application, use to indicate an Other Support loop subordinate to a Key Person loop.
2. One iteration of an Other Support loop is REQUIRED for EACH project (active, pending, or planned), other than a project contained in this application, to identify the level of support, the organization providing the support, and other related data . Submission of this same application to another agency requires the use of an Other Support loop.

PC Project Code
Use is REQUIRED in an application as the first iteration of the HL loop to identify the Project loop. Do not use in subsequent loops.

SP Sub-Project
Use to indicate a Sub-project loop. A Sub-project loop must have the Project, another Sub-project, or a Consortium loop as its parent.

HL04 736 Hierarchical Child Code O ID 1/1

Code indicating if there are hierarchical child data segments subordinate to the level being described

Use to indicate whether or not there is a subordinate loop to follow.

- 0 No Subordinate HL Segment in This Hierarchical Structure.
- 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: **QTY** Quantity
Position: 0200
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Notes: *Use this segment only when HL03 is code PC (Project loop) or code 26 (Key Person loop).*

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
		37	Work In Process	
			<i>When HL03 is code 26 (Key Person Loops) and BGN07 is code 6C or 6N, use on NIH renewals to identify the level of effort of the individual for the current budget period. Express as a decimal (i.e., 50% is .5).</i>	
		E5	Employed by this Company	
			<i>When HL03 is code PC (Project loop), use to indicate the number of employees in the company. Use only in Small Business Innovation Research Program (SBIR) and Small Business Technology Transfer Program (STTR) applications.</i>	
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	
Not Used	QTY03	C001	Composite Unit of Measure	O
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Not Used	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	355	Unit or Basis for Measurement Code	O ID 2/2

			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	

Segment: **DTM** Date/Time Reference

Position: 0500

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Notes:

1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use to indicate the planned start and stop dates for the project.
2. When HLO3 is code OS (Other Support) use to indicate the date of submission for the active or pending other support project proposal.

Data Element Summary

Ref.	Data	Element	Name	Attributes
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		193	Period Start	<i>Use to indicate the planned start date.</i>
		194	Period End	<i>Use to indicate the planned completion date.</i>
		432	Submission	<i>When HL03 is code OS, use to indicate the submission date for active or pending Other Support.</i>
		582	Report Period	<i>Use to indicate the reporting period in DTM05/06.</i>
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time;	

since + is a restricted character, + and - are substituted by P and M in the codes that follow

DTM05 1250 Date Time Period Format Qualifier X ID 2/3
 Code indicating the date format, time format, or date and time format
 RD8 Range of Dates Expressed in Format CCYYMMDD
 -CCYYMMDD

DTM06 1251 Date Time Period X AN 1/35
 Expression of a date, a time, or range of dates, times or dates and times

Use in conjunction with DTM01 code 582. Express the reporting period in CCYYMMDD-CCYYMMDD format.

Segment: **PAM** Period Amount

Position: 0600

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: >1

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

- Syntax Notes:**
- 1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
 - 2 At least one of PAM02 PAM05 or PAM14 is required.
 - 3 If either PAM04 or PAM05 is present, then the other is required.
 - 4 If either PAM06 or PAM07 is present, then the other is required.
 - 5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
 - 6 If PAM07 is present, then PAM06 is required.
 - 7 If PAM08 is present, then PAM07 is required.
 - 8 If PAM09 is present, then PAM07 is required.
 - 9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
 - 10 If PAM11 is present, then PAM10 is required.
 - 11 If either PAM13 or PAM14 is present, then the other is required.

- Semantic Notes:**
- 1 PAM10, PAM11, or PAM12 are used when two dates are required.
 - 2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.

- Notes:**
1. *When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop), use of this segment is REQUIRED to identify the planned duration of the project.*
 2. *When HL03 is code OS (Other Support loop), one occurrence of this segment is REQUIRED to identify the other support project: type (active, pending, or planned), funding (total or direct costs), duration, and start/stop dates. It may also identify the average level of effort on the other support project for the individual identified in the parent Key Person loop.*
 3. *One or two additional occurrences may be used to identify the number of months of support for the individual by period.*

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
Must Use	PAM01	673 Quantity Qualifier	X ID 2/2
		Code specifying the type of quantity	
		37 Work In Process	
		<i>When HL03 is code OS (Other Support loop), use to indicate the duration of the ACTIVE (funded) other support project.</i>	
		A3 Most Likely Duration	
		<i>1. When HL03 is code PC (Project loop), SP (Sub</i>	

-project loop), or CO (Consortium loop), use is REQUIRED to indicate the planned duration of a project.

2. When HL03 is code OS (Other Support) use to indicate the duration of the PENDING other support project.

AY Forecast

When HL03 is code OS (Other Support loop), use to indicate the duration of the PLANNED other support project.

E3 Employed on this job

1. When HL03 is code OS (Other Support loop), use to indicate the number of months of other support to be received by the individual in the period correlating to the first year of the application currently being submitted. Use either one or two occurrences as needed. If this code is used, PAM06-08 must also be used.

2. Use only in additional occurrences of the PAM segment which follow a PAM segment in which one of PAM01 codes 37, A3 or AY is being used.

Must Use	PAM02	380	Quantity	X	R 1/15
			Numeric value of quantity		
Must Use	PAM03	C001	Composite Unit of Measure	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	C00101	355	Unit or Basis for Measurement Code	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			MO Months		
Not Used	C00102	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00103	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00104	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00105	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00106	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		

Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	PAM04	522	Amount Qualifier Code Code to qualify amount	X ID 1/3

When HL03 is code OS (Other Support) and PAM01 is one of 37, A3, or AY use either code 80 or code F.

80

Funding - Total Requirements

Use to indicate the total award amount:

- 1. When HL03 is code OS (Other Support loop) and PAM01 is code 37, use to indicate the amount for the active project.***
- 2. When HL03 is code OS (Other Support loop) and PAM01 is code A3, use to indicate the amount for the pending project.***
- 3. When HL03 is code OS (Other Support loop) and PAM01 is code AY, use to indicate the amount for the planned project.***

F

Annual Limit

Use to indicate the annual direct costs for the applicable year:

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37, use to indicate the amount for the active project

2. When HL03 is code OS (Other Support loop) and PAM01 is code A3, use to indicate the amount for the pending project.

3. When HL03 is code OS (Other Support loop) and PAM01 is code AY, use to indicate the amount for the planned project.

PAM05 782 Monetary Amount X R 1/18
 Monetary amount
Amount in U.S. currency.

PAM06 344 Unit of Time Period or Interval X ID 2/2
 Code indicating the time period or interval

1. When HL03 is code OS (Other Support loop) and PAM01 is one of codes 37, A3 or AY, use to identify the type of time period for the other support project.

2. When HL03 is code OS (Other Support loop) and PAM01 is code E3, must use to identify the type of time period for which the individual receives other support.

AP Academic Period

Use to indicate an academic period.

CC Cycles

Use to indicate a total Other Support project period when not an academic period, summer period or an annual period.

CY Calendar Year

Use to indicate an annual period.

QY Quarter of a Year

Use to indicate Quarterly.

SP Summer Period

Use to indicate a summer period.

PAM07 374 Date/Time Qualifier X ID 3/3
 Code specifying type of date or time, or both date and time

193 Period Start

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37, A3, or AY, use to indicate the actual or estimated start of the other support project.

2. When HL03 is code OS (Other Support loop) and PAM01 is code E3, use to indicate the actual or estimated start period of individual's other support.

	PAM08	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	PAM09	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
	PAM10	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time	
		194	Period End	
			<p>1. When HL03 is code OS (Other Support loop) and PAM01 is either code 37, A3, or AY use to indicate the date that other support project is anticipated to end.</p> <p>2. Do not use with PAM01 code E3.</p>	
	PAM11	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	PAM12	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
	PAM13	1004	Percent Qualifier	X ID 1/2
			Code to qualify percent	
		14	Availability Factor	
			<p>When PAM01 is code 37, A3, or AY, use to indicate the average level of effort to be dedicated to the other support project if less than full time (100%) for the individual identified in the parent Key Person loop.</p>	
	PAM14	954	Percent	X R 1/10
			Percentage expressed as a decimal	
			<p>Cite .5 to indicate 50% (one-half time); cite .755 to indicate 75.5%.</p>	
Not Used	PAM15	1073	Yes/No Condition or Response Code	O ID 1/1
			Code indicating a Yes or No condition or response	

Segment: **NX1** Property or Entity Identification
Position: 0800
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To define the attributes of a property or an entity
Syntax Notes:
Semantic Notes:
Notes:

1. When HL03 is code PC (Project loop), a single occurrence of this segment is **REQUIRED** to identify the type of organization submitting the application.
2. Use, as applicable, when HL03 is code SP (Sub-project loop) or CO (Consortium loop).
3. Use NX02-05 prior to another NX1 iteration. May use multiple iterations of the NX1 loop.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	NX101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		<i>Use ALL listed codes that apply. Cite the applicable codes in NX101/02/03/04/05, as needed.</i>	
		21	Small Business
		22	Minority-Owned Business, Small
		<i>Use to indicate a minority business which is at least 51 percent owned by one or more minority or disadvantaged individuals or, in the case of publicly owned business, have at least 51 percent of the voting stock owned by one or more minority or disadvantaged individuals; and one whose management and daily business operations are controlled by one or more such individuals.</i>	
		27	Small Disadvantaged Business
		<i>1. Are you a socially and economically disadvantaged business, as determined by the U.S. Business Administration pursuant to section 8(a) of the Small Business Act U.S.C. 637(a)?</i>	
		<i>2. Use Y, N or W as appropriate in YNQ02.</i>	
		2F	State
		<i>Use to indicate a state government-owned entity.</i>	

	<i>Includes school grades K-12. Use in conjunction with code M8 to indicate institutions of higher education, such as state universities and colleges.</i>
2J	Individual
2R	Federal Facility <i>Use to indicate a Federally owned facility.</i>
75	Participant <i>Use to indicate Special District.</i>
7A	Premises <i>Use to indicate Public/Indian Housing Authority.</i>
80	Hospital
8E	Minority Institution <i>Use to indicate the organization is also an institution of higher education and code HB does not apply. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, and C8; otherwise, the institution will be considered to be privately-owned.</i>
95	Research Institute <i>Also use code 2F, 2R, C6, C7, or C8 if the institution is publicly-owned.</i>
A2	Woman-Owned Business
A6	Section 8(a) Program Participant Firm
A8	Nonprofit Institution <i>1. Use to indicate a nonprofit entity not otherwise identified by a listed code.</i> <i>2. Also may be used with other codes to indicate that the entity is a nonprofit organization. If this code is not used in conjunction with another code, that entity will be assumed to be for-profit. Do not use with codes 2F, 2R, C6, C7, C8, X6, or XY.</i>
ABG	Organization <i>Use to indicate a Profit Organization. May be used in conjunction with other codes.</i>
ABS	Founder <i>Use to indicate 1890 Land Grant College in USDA-CSREES applications.</i>
ACU	Group Affiliation <i>Use to indicate Tribal College (other than 1994) in USDA-CSREES applications.</i>
B2	Other Unlisted Type of Organizational Entity

	<p><i>1. Use to indicate an organizational entity type not included in other available codes (e.g., a Federally Funded Research and Development Center [FFRDC]). This code may be used in conjunction with code A8 but not other codes.</i></p> <p><i>2. Use the 2/N9/1000 segment, code BE to specify what "Other" is, if required.</i></p>
B9	Large Business
BZ	Business Associate
	<p><i>Use to indicate a Foundation; an organization, closely affiliated with but separately incorporated from another organization, established to facilitate the administration of research and other programs supported by Federal funds.</i></p>
C6	Municipality
	<p><i>Use to indicate a local government-owned entity. Includes boroughs, townships and organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.</i></p>
C7	County
	<p><i>Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.</i></p>
C8	City
	<p><i>Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.</i></p>
ENR	Enroller
	<p><i>Use to indicate 1862 Land Grant College in USDA-CSREES applications.</i></p>
FY	Veterinary Hospital
GW	Group
	<p><i>Use to indicate Hispanic-Serving Institution in USDA-CSREES applications.</i></p>
H2	Sub-Office
	<p><i>Use to indicate that the organization submitting the application is a part of the same federal agency as the awarding organization. Use only in</i></p>

	<i>conjunction with any of codes 2R, 80, 95, or M8.</i>
H6	School District
HB	Historically Black College or University <i>If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.</i>
HT	State Chartered Facility <i>Use to indicate 1994 Land Grant College in USDA -CSREES applications.</i>
IAA	Business Entity <i>Use to indicate Cooperative Extension Service in USDA-CSREES applications.</i>
J9	Community Agent <i>Use to indicate a Community Action Agency.</i>
KM	Coordinator <i>Use to indicate a Planning Commission.</i>
M8	Educational Institution <i>The organization is also an institution of higher education. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.</i>
N9	Neighborhood <i>Use to indicate a township.</i>
NC	Cross-Town Switch <i>Use to indicate Inter-municipal.</i>
QU	Veterinarian <i>Use in conjunction with code M8 to identify a veterinary college.</i>
T4	Transfer Point <i>Use to indicate a Port Authority.</i>
TR	Terminal <i>Use to indicate an Airport Authority.</i>
TW	Transit Authority
U4	Team <i>Use to indicate Interstate.</i>
UD	Region <i>Use to indicate a Council of Governments.</i>
X6	International Organization
X8	Hispanic Service Institute

XY	Tribal Government
	<i>Use to indicate an American Indian organization which is not a business.</i>
XZ	American Indian-Owned Business
ZW	Field
	<i>Use to indicate School of Forestry in USDA -CSREES applications.</i>

NX102 98 Entity Identifier Code O ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

21	Small Business
22	Minority-Owned Business, Small
23	Minority-Owned Business, Large
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
75	Participant
7A	Premises
80	Hospital
8E	Minority Institution
95	Research Institute
A2	Woman-Owned Business
A6	Section 8(a) Program Participant Firm
A8	Nonprofit Institution
ABG	Organization
ABS	Founder
ACU	Group Affiliation
B2	Other Unlisted Type of Organizational Entity
B9	Large Business
BZ	Business Associate
C6	Municipality
C7	County
C8	City
ENR	Enroller
FY	Veterinary Hospital
GW	Group
H2	Sub-Office
H6	School District

HB	Historically Black College or University
HT	State Chartered Facility
IAA	Business Entity
J9	Community Agent
KM	Coordinator
M8	Educational Institution
N9	Neighborhood
NC	Cross-Town Switch
QU	Veterinarian
T4	Transfer Point
TR	Terminal
TW	Transit Authority
U4	Team
UD	Region
X6	International Organization
X8	Hispanic Service Institute
XY	Tribal Government
XZ	American Indian-Owned Business
ZW	Field

NX103**98****Entity Identifier Code****O ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

1F	Alliance
21	Small Business
22	Minority-Owned Business, Small
23	Minority-Owned Business, Large
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
75	Participant
7A	Premises
80	Hospital
8E	Minority Institution
95	Research Institute
A2	Woman-Owned Business
A6	Section 8(a) Program Participant Firm
A8	Nonprofit Institution
ABG	Organization

ABS	Founder
ACU	Group Affiliation
B2	Other Unlisted Type of Organizational Entity
B9	Large Business
BZ	Business Associate
C6	Municipality
C7	County
C8	City
FY	Veterinary Hospital
GW	Group
H2	Sub-Office
H6	School District
HB	Historically Black College or University
HT	State Chartered Facility
IAA	Business Entity
J9	Community Agent
KM	Coordinator
M8	Educational Institution
N9	Neighborhood
NC	Cross-Town Switch
QU	Veterinarian
T4	Transfer Point
TR	Terminal
TW	Transit Authority
U4	Team
UD	Region
X6	International Organization
X8	Hispanic Service Institute
XY	Tribal Government
XZ	American Indian-Owned Business
ZW	Field

NX104 98 Entity Identifier Code O ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

21	Small Business
22	Minority-Owned Business, Small
23	Minority-Owned Business, Large
27	Small Disadvantaged Business
2F	State

2J	Individual
2R	Federal Facility
75	Participant
7A	Premises
80	Hospital
8E	Minority Institution
95	Research Institute
A2	Woman-Owned Business
A6	Section 8(a) Program Participant Firm
A8	Nonprofit Institution
ABG	Organization
ABS	Founder
ACU	Group Affiliation
B2	Other Unlisted Type of Organizational Entity
B9	Large Business
BZ	Business Associate
C6	Municipality
C7	County
C8	City
ENR	Enroller
FY	Veterinary Hospital
GW	Group
H2	Sub-Office
H6	School District
HB	Historically Black College or University
HT	State Chartered Facility
IAA	Business Entity
J9	Community Agent
KM	Coordinator
M8	Educational Institution
N9	Neighborhood
NC	Cross-Town Switch
QU	Veterinarian
T4	Transfer Point
TR	Terminal
TW	Transit Authority
U4	Team
UD	Region
X6	International Organization
X8	Hispanic Service Institute
XY	Tribal Government

XZ American Indian-Owned Business
 ZW Field

NX105 98 Entity Identifier Code O ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

21	Small Business
22	Minority-Owned Business, Small
23	Minority-Owned Business, Large
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
75	Participant
7A	Premises
80	Hospital
8E	Minority Institution
95	Research Institute
A2	Woman-Owned Business
A6	Section 8(a) Program Participant Firm
A8	Nonprofit Institution
ABG	Organization
ABS	Founder
ACU	Group Affiliation
B2	Other Unlisted Type of Organizational Entity
B9	Large Business
BZ	Business Associate
C6	Municipality
C7	County
C8	City
ENR	Enroller
FY	Veterinary Hospital
GW	Group
H2	Sub-Office
H6	School District
HB	Historically Black College or University
HT	State Chartered Facility
IAA	Business Entity
J9	Community Agent
KM	Coordinator

M8	Educational Institution
N9	Neighborhood
NC	Cross-Town Switch
QU	Veterinarian
T4	Transfer Point
TR	Terminal
TW	Transit Authority
U4	Team
UD	Region
X6	International Organization
X8	Hispanic Service Institute
XY	Tribal Government
XZ	American Indian-Owned Business
ZW	Field

Segment: **YNQ** Yes/No Question
Position: 0900
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:

- 1 Only one of YNQ01 YNQ09 or YNQ10 may be present.
- 2 If either YNQ03 or YNQ04 is present, then the other is required.
- 3 If YNQ09 is present, then YNQ08 is required.

Semantic Notes:

- 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
- 2 YNQ10 contains a free-form question when codified questions are not available.

Notes: *When HL03 is code PC (Project loop), use this segment to indicate Yes/No conditions regarding the grant applicant and, where necessary, to provide explanations.*

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
Must Use	YNQ01	1321 Condition Indicator	X ID 2/2
		Code indicating a condition	
		<i>1. Use codes only when the organization's response to the question matches the criteria in the code note.</i>	
		<i>2. When a code is used, use YNQ05/06/07 to provide explanations.</i>	
	2F	Zoning compliance is legal	
		<i>1. Are you located in a HUBZone?</i>	
		<i>2. Use Y, N, W as appropriate.</i>	
		<i>3. If the answer is Yes, indicate the HUBZone in YNQ05</i>	
	4H	Current Employer	
		<i>1. Will the Project Director/Principal Investigator have his/her primary employment with the small business at the time of award?</i>	
		<i>2. Use Y, N, or W in YNQ02.</i>	
	5E	Medical Treatment	
		<i>1. Use in NIH proposals to indicate a change in the use of human subjects.</i>	

	<p>2. If answer in YNQ02 is "Yes", explain in YNQ05/06/07.</p> <p>3. If answer is "No" or "Not Applicable" indicate N or W in YNQ02.</p>
6G	<p>Work Status</p> <p>1. Use in NIH proposals to indicate a change in the use of animal subjects.</p> <p>2. If answer in YNQ02 is "Yes", explain in YNQ05/06/07.</p> <p>3. If answer is "No" or "Not Applicable" indicate N or W in YNQ02.</p>
C8	<p>Special Servicing Required</p> <p>1. Does the project require review for activities that have possible national security implications?</p> <p>2. If answer in YNQ02 is "Yes", explain in YNQ05/06/07.</p> <p>3. If answer is "No" or "Not Applicable" indicate N or W in YNQ02.</p>
CX	<p>Certification Status</p> <p>1. Organization Certifies Compliance with the Pro-Children's Act.</p> <p>2. Use Y, N, or W as appropriate in YNQ02.</p>
FG	<p>Application is Certified</p> <p>1. The applicant certifies compliance with all applicable assurances identified on the Standard Form 424b.</p> <p>2. Use Y, N, or W as appropriate in YNQ02.</p> <p>3. If answer is "No", provide explanation in YNQ05/06/07.</p>
G3	<p>Hazardous Materials are Used or Produced</p> <p>1. Are hazardous materials used or produced in the project?</p> <p>2. Use Y, N, or W as appropriate in YNQ02.</p>

- G4 Genetically Engineered Organisms are Used or Produced
- 1. Are genetically engineered organisms used or produced in the project?*
 - 2. Use Y, N, or W as appropriate in YNQ02.*
- G6 Historical Sites Are Affected
- 1. Are historical sites affected by the project?*
 - 2. Use Y, N, or W as appropriate in YNQ02.*
 - 3. If answer is "Yes", provide explanation in YNQ05/06/07.*
- G7 Facilities are Properly Accredited or Authorized
- 1. Are facilities properly accredited/authorized for this project?*
 - 2. Use Y, N, or W as appropriate in YNQ02.*
 - 3. If answer is "No", provide explanation in YNQ05/06/07.*
- G8 Proprietary or Privileged Information will be contained in the Application
- 1. Is proprietary/privileged information included in the application?*
 - 2. Use Y, N, or W as appropriate in YNQ02.*
- G9 This Project is in Violation of an Environmental Compliance Regulation
- 1. Does this project have an actual or potential impact on the environment or has an exemption been authorized?*
 - 2. Use Y, N, or W as appropriate in YNQ02.*
 - 3. If answer is "Yes", provide explanation in YNQ05/06/07.*
- H0 Organization Certifies Compliance with Federal Lobbying Regulations
- 1. Does the proposing organization certify that no Federal appropriated funds have been paid or will be paid compliance with Federal Lobbying Regulations?*

2. Title 31 USC 1352 prohibits recipients of Federal grants and cooperative agreements from using Federal (appropriated) funds for lobbying the Executive or Legislative Branches of the Federal Government in connection with a specific grant or cooperative agreement. 31 USC 1352 requires this certification in all award documents for awardees and sub-awardees.

3. Use Y, N, or W as appropriate in YNQ02.

4. If answer is "No", provide explanation in YNQ05/06/07.

H1 Project involves the International Co-operative Act

1. Does this project involve international cooperative activities?

2. Use Y, N, or W as appropriate in YNQ02.

3. If the answer is yes, provide the country codes in YNQ05/06/07. If there are more than three country codes, use another iteration of the YNQ citing code H1.

H4 Lobbying Activities Have Been Conducted Regarding the Proposal

1. Have lobbying activities been conducted regarding the application?

2. Title 31 USC 1352 requires that each person who requests or receives a Federal grant or cooperative agreement must disclose lobbying undertaken with non-Federal (non-appropriated) funds. These requirements apply to grants and cooperative agreements exceeding \$100,000 in total costs.

3. Use Y, N, or W as appropriate in YNQ02.

4. If answer is "Yes", provide explanation in YNQ05/06/07.

H5 Organization Certifies Compliance With the Drug-Free Workplace Act

1. Does the organization certify compliance with the Drug-Free Workplace Act of 1988?

2. Use Y, N, or W as appropriate in YNQ02.

- H6 Organization Certifies Compliance with the Code of Federal Regulations Regarding Research Misconduct
- 3. If answer is "No", provide explanation in YNQ05/06/07.**
 - 1. Does the organization certify compliance with the Code of Federal Regulations "Responsibility for Public Health Service (PHS) Awardee and Applicant Institutions for Dealing with and Reporting Possible Misconduct in Science" (42 CFR 50 Subpart A)?**
 - 2. Use Y, N, or W as appropriate in YNQ02.**
 - 3. If answer is "No", provide explanation in YNQ05/06/07.**
- H7 Organization Provides a Smoke Free Workplace
- 1. Does the organization currently provide a smoke-free workplace and/or promote the non-use of tobacco products, or have plans to do so?**
 - 2. Use Y, N, or W as appropriate in YNQ02.**
- H8 Organization Certifies Compliance with Federal Discrimination Regulations
- 1. Does the organization certify compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1975?**
 - 2. Use Y, N, or W as appropriate in YNQ02.**
- 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
- 1. Does the organization certify compliance with the Code of Federal Regulations "Responsibility of Applicants for Promoting Objectivity in Research for which PHS Funding is Sought" (42 CFR 50, Subpart F) or National Science Foundation Financial Disclosure Policy (National Science Foundation (NSF) Grant Policy Manual, Section 510)?**
 - 2. Use Y, N, or W as appropriate in YNQ02.**

- I7 Organization has Delinquent Federal Debts
3. If answer is "No", provide explanation in YNQ05/06/07.
1. Does the organization have any delinquent Federal debts?
2. Use either Y or N in YNQ02.
3. If answer is "Yes", provide explanation in YNQ05/06/07.
- I8 Organization has been Placed on the Federal Debarment and Suspension List
1. Is the organization on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs or otherwise been determined NOT in compliance with Executive Orders on Debarment/Suspension?
2. Use Y, N, or W as appropriate in YNQ02.
3. If answer is "Yes", provide explanation in YNQ05/06/07.
- IG Small
1. Do you certify that at the time of award your organization will meet the eligibility criteria for a small business as defined in the funding opportunity announcement?
2. Use Y, N, or W in YNQ02.
- J1 Military Services Barred from Recruitment Activities at the Proposing Organization's Site(s)
1. Are Military Services barred from recruitment activities at the proposing organization's site(s)?
2. Use Y, N, or W as appropriate in YNQ02.
3. If answer is "Yes", provide explanation in YNQ05/06/07.
- J4 Project Requires Inter-Government Review for Activities that affect State or Local Government or Possible National Security Implications
1. Does the project require review under Executive Order No. 12372 for activities that directly affect state or local government? (Note: Use code C8 if there are national security implications.)

2. If answer is Y in YNQ02, identify the review date in YNQ04.

3. Use W in YNQ02 when the project is subject to the Executive Order but has not been selected for review.

4. Use N if the project is not covered by the Executive Order.

NR

No Restrictions

1. Use to indicate that the applying organization gives permission to the Federal Government to announce the award and address-related information regarding the organization.

2. Use Y or N as appropriate in YNQ02.

YO

Established in the Industry

1. Are you a SBIR Phase I applicant that has received more than 15 Phase II SBIR awards, as totaled from all Federal agencies with SBIR programs, during the preceding 5 fiscal years?

2. Use Y, N, or W as appropriate.

3. If the answer is Yes, use 2/N901/1000, code E9 to indicate additional information pertaining to the awards will follow in the 2/MTX/1100 segment.

M	YNQ02	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response <i>A Yes/No response relates to the code cited in the immediately preceding YNQ01 data element.</i> N No W Not Applicable Y Yes	M ID 1/1
	YNQ03	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	X ID 2/3
	YNQ04	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times <i>When YNQ01 is code J4 and YNQ02 is code Y, use to identify the review date.</i>	X AN 1/35
	YNQ05	933	Free-Form Message Text Free-form message text	O AN 1/264

Use as needed to provide explanatory text related to the codes selected in YNQ01/02. YNQ05/06/07 may be used as a continuous string of text.

	YNQ06	933	Free-Form Message Text Free-form message text	O AN 1/264
	YNQ07	933	Free-Form Message Text Free-form message text	O AN 1/264
Not Used	YNQ08	1270	Code List Qualifier Code Code identifying a specific industry code list	X ID 1/3
Not Used	YNQ09	1271	Industry Code Code indicating a code from a specific industry code list	X AN 1/30
Not Used	YNQ10	933	Free-Form Message Text Free-form message text	X AN 1/264

Segment: **N9 Reference Identification**
Position: 1000
Loop: N9 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

- Notes:**
1. *Use this N9 loop in various loops as indicated by the N901 codes.*
 2. *Specifically, use this N9 loop when HL03 is code PC (Project loop), SP (Sub-project loop) and CO (Consortium loop) to provide references and text descriptions related to the project.*
 3. *When portions of the application are being transmitted as objects using transaction set 102, use code OIC in N901. Provide the TS 102, Associated Object Reference Identification, in N902, and identify the portion of the application in N903.*
 4. *Use to indicate the portion of the application being transmitted as associated data using Transaction Set 102.*

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N901	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		3X Subcontract Number	
			<i>Use this code once only when HL03 is code SP (Sub-project loop) or CO (Consortium loop) to indicate a unique identification number for the sub-project or consortium effort identified in this iteration of the HL loop.</i>
		43 Supporting Document Number	
			<i>1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or 4 (Care Group loop), use to indicate that a matrix will follow. For example, when HL03 is code 4 (Group), a Gender and Minority inclusion matrix</i>

		<p><i>associated with the individuals making up the care group could follow. Cite the word MATRIX in N903 and use the 2/MTX/1100 segment to identify the matrix title.</i></p> <p>2. Use of the 2/INX/1200 loop is REQUIRED to define the matrix.</p>
5S	Processing Area	<p><i>For nonresearch applications, use to indicate the type of submission as specified in the Federal Agency grant application instructions. This represents the project's purpose, e.g., construction, rehabilitation, planning, etc.</i></p> <p><i>Use to convey Standard Form 424, block 1, Type of Submission, Construction or Non-construction, when the application type is Construction.</i></p>
6M	Application Number	<p>1. Use to indicate the application number assigned by a reviewing organization (state, regional council, transit authority, etc.) taking action prior to the submission of the application to a Federal Agency.</p> <p>2. Identify the reviewing organization in N903.</p>
BE	Business Activity	<p><i>When NX01 code is B2 and the "Other" type organization is to be specified, use with N903 to identify the organization in plain text.</i></p>
E9	Attachment Code	<p>1. Use in conjunction with code YO in the YNQ segment when the answer to the question is Yes.</p> <p>2. Indicate a "1" in N902.</p> <p>3. Provide the following information in the MTX segment for the SBIR question: name of the awarding agency, date of award, funding agreement number, funding amount, topic or subtopic title, amount of follow-on funding, source and date that the follow-on funding was provided and the current commercialization status.</p>
F4	Facility Certification Number	<p>1. Use to indicate the organization's Assurance of Compliance Number in N902; the type of review</p>

(FULL or EXPEDITED) in N903; and identify the Institution Review Board (IRB) approval date in N904.

2. When the number applies to all care groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium (HL03 is code CO).

3. When the number applies to an individual care group, use this code in that Care Group loop (HL03 is code 4).

4. When an IRB approval has not been received, cite the word PENDING in N903.

L4

Proposal Paragraph Number

1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), or AS (Animal Subject loop), use to indicate that N902 cites the Grant paragraph number that identifies the type of text that will appear in the following 2/MTX/110 segment. N903 may be used to provide an applicant-supplied title for that paragraph.

2. This N9/MTX combination provides the text data comprising the statement of work and other textual data associated with the application.

OIC

Object Identifier

Use to indicate that a portion of the application is being transmitted as an object using Transaction Set 102. Identify the object using N902-3.

WI

Waiver

1. Use to indicate the applicable exemption to the Common Rule for Protection of Human Subjects (1, 2, 3, 4, 5, or 6). The number is cited in N902. See the specific agency implementation of Common Rule for category definitions.

2. When the exemption applies to all care groups, use this code in the Project loop (HL03 is code PC) or in the applicable Sub-project loop (HL03 is code SP).

3. When the number applies to an individual care

group, use this code in that Care Group loop (HL03 is code 4).

Y9

Current Certificate Number

1. Use to indicate the Animal Welfare Assurance Number. Use N904 to identify the Institutional Animal Care and Use Committee (IACUC) approval date.

2. When the number applies to all animal subject groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium loop (HL03 is code CO).

3. When the numbers vary by animal subject groups, use this code in that Animal Subject loop (HL03 is code AS).

4. When an IACUC approval has not been received, cite the word PENDING in N903.

YB

Revision Number

When BGN07 is code FM and HL03 is code PC (Project loop), use to indicate the Federal agency identification of a revised budget.

N902

127

Reference Identification

X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When N901 is code L4, cite the applicable Grant paragraph number from the following list:

Para # Paragraph Title

A Abstract

B Project Description

B.1 Introduction

B.2 Aims

B.3 Background

B.4 Preliminary Studies

B.5 Research Design/Approach

B.6 Bibliography/References

B.7 Results from Prior Support

C Project Resources & Environment

C.1 Personnel & Budget Justifications

C.2 Space/Facilities

C.3	<i>Equipment</i>
C.4	<i>Other</i>
C.5	<i>Travel Justification</i>
C.6	<i>Alterations and Renovations</i>
C.7	<i>Supplies</i>
E	<i>Explanations</i>
E.1	<i>Cert & Reqs</i>
E.2	<i>Other Commitments</i>
E.3	<i>Mandatory Cost Sharing</i>
E.4	<i>Project Related Income</i>
E.5	<i>Special Project Considerations</i>
E.6	<i>Consortium/Contractual Arrangements</i>
E.7	<i>Indirect Cost Base</i>
F	<i>Special Considerations</i>
F.1	<i>List of Reviewers (Include/Exclude)</i>
F.2	<i>Cover Letter</i>
F.3	<i>Free Text</i>
G	<i>Human Subjects</i>
H	<i>Animals</i>
H.1	<i>Species Description</i>
I	<i>Progress Report</i>
I.1	<i>Specific Aims</i>
I.2	<i>Results & Significance</i>
I.3	<i>Plans</i>
I.3.1	<i>Plans Specific Aims</i>
I.3.2	<i>Human Subject Changes</i>
I.3.3	<i>Invertebrate Animal Subject Changes</i>
I.4	<i>Project Generated Resources</i>
I.5	<i>Significant Unobligated Balances</i>
I.6	<i>Inventions (Title, Name of inventor(s))</i>
I.7	<i>Expenditures To-Date</i>
K	<i>Research Career Award</i>
K.1	<i>The Candidate</i>
K.1.1	<i>Letters of Reference</i>
K.1.2	<i>Candidate's Background</i>
K.1.3	<i>Career Goals and Objectives: Scientific Biography</i>
K.1.4	<i>Career Development Activities during Award Period</i>
K.2	<i>Statements by Sponsors, Consultants, and Collaborators</i>
K.3	<i>Environment and Institutional Commitment to Candidate</i>
K.3.1	<i>Description of Institutional Environment</i>
K.3.2	<i>Institutional Commitment</i>

		<p><i>L Research Training Program Plan</i></p> <p><i>L.1 Introduction to Revised Application</i></p> <p><i>L.2 Introduction to Supplemental Application</i></p> <p><i>L.3 Background</i></p> <p><i>L.4 Program Plan</i></p> <p><i>L.4.1 Program Direction</i></p> <p><i>L.4.2 Program Faculty</i></p> <p><i>L.4.3 Proposed Training</i></p> <p><i>L.4.4 Trainee Candidates</i></p> <p><i>L.5 Recruitment of Individuals</i></p> <p><i>L.6 Responsible Conduct of Research</i></p> <p><i>M Potential Applications of Research</i></p> <p><i>2. Use to indicate the Associated Object Reference Identification when Transaction Set 102 is used to transmit a portion of the application as associated data. Use the value in ORI01 of TS 102.</i></p> <p><i>3. When N901 code is E1, enter the number 1 to comply with X12 syntax.</i></p>	
N903	369	<p>Free-form Description</p> <p>Free-form descriptive text</p> <p><i>1. When N901 is code 6M, use to identify the reviewing organization. For a state government, cite only the two position postal code abbreviation for the state, e.g., CA, KS, FL, VT, etc.</i></p> <p><i>2. When N901 code F4, use to identify the type of IRB review. Cite either the word FULL or EXPEDITED. When an IRB approval has not been received cite the word PENDING.</i></p> <p><i>3. When N901 is code L4, use to identify the Grant Application paragraph title or an alternative title preferred by the grant applicant.</i></p> <p><i>4. Use to indicate the portion of the application being transmitted as associated data using Transaction Set 102.</i></p> <p><i>5. When N901 is code 5S, identify the project's purpose (e.g. construction).</i></p> <p><i>6. When N901 is code BE, identify what the "Other" type organization is from NX01 code B2.</i></p>	X AN 1/45
N904	373	<p>Date</p> <p>Date expressed as CCYYMMDD</p> <p><i>1. When N901 is code 6M, use to identify the date received by the reviewing organization.</i></p>	O DT 8/8

2. When HL03 is code 4 (Care Group loop) and N901 is code F4, use to identify the IRB approval date.

3. When HL03 is code AS (Animal Subject loop) and N901 is code Y9, use to identify the IACUC approval date.

Not Used	N905	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	N906	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
Not Used	N907	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **L11 Business Instructions and Reference Number**
Position: 1050
Loop: N9 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: 1 At least one of L1101 or L1103 is required.
 2 If either L1101 or L1102 is present, then the other is required.

Semantic Notes:

Notes: *When 2/N901/1000 is code 43, use to identify the brand name of the spreadsheet software and its version and release number.*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
L1101	127		Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
L1102	128		Reference Identification Qualifier Code qualifying the Reference Identification ZS Software Application Number <i>Use to indicate the brand name of the spreadsheet software and its version and release number. For example, Excel 97.</i>	X ID 2/3
Not Used	L1103	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

Segment:	MTX Text
Position:	1100
Loop:	N9 Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify textual data
Syntax Notes:	<ol style="list-style-type: none"> 1 If MTX01 is present, then MTX02 is required. 2 If MTX03 is present, then MTX02 is required. 3 If MTX05 is present, then MTX04 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MTX05 is the number of lines to advance before printing.
Notes:	<ol style="list-style-type: none"> 1. When 2/N901/1000 is code 43, use this MTX segment to provide the matrix title. 2. When 2/N901/1000 is code L4, use this segment to provide text that is associated with the Grant paragraph number cited in N902. 3. When 2/N901/100 is code E9, use this MTX segment to provide: name of the awarding agency, date of award, funding agreement number, funding amount, topic or subtopic title, amount of follow-on funding, source and date that the follow-on funding was provided and the current commercialization status.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Not Used	MTX01	363 Note Reference Code	O ID 3/3
		Code identifying the functional area or purpose for which the note applies	
Must Use	MTX02	1551 Message Text	X AN 1/4096
		To transmit large volumes of message text	
	MTX03	1551 Message Text	O AN 1/4096
		To transmit large volumes of message text	
Not Used	MTX04	934 Printer Carriage Control Code	X ID 2/2
		A field to be used for the control of the line feed of the receiving printer	
Not Used	MTX05	1470 Number	O N0 1/9
		A generic number	
	MTX06	819 Language Code	O ID 2/3
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	

Segment: **INX** Index Detail

Position: 1200

Loop: INX Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify an index

- Syntax Notes:**
- 1 If either C03602 or C03603 is present, then the other is required.
 - 2 At least one of C03602 or C03604 is required.
 - 3 If either C03604 or C03605 is present, then the other is required.

Semantic Notes:

- Notes:**
1. *When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or 4 (Care Group loop), use to identify data in a matrix (spreadsheet) format.*
 2. *Use this INX segment to define the pattern and range of cells within the matrix and the 2/K3/I300 segment to define the content of the cell(s) specified by the INX.*
 3. *For purposes of this implementation convention (IC), cells will be identified in a manner typical of computer spreadsheets. That is, the columns will be identified by a letter A, B, C ... and the rows by a number 1, 2, 3 ... The column and row titles (text descriptions) are REQUIRED to be included in the matrix. In specifying ranges it is not necessary to specify a continuous series of cells within a row or column; they can be broken into subsets. However, when all iterations of the INX loop are complete, the entire matrix should be complete.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	INX01	1550 Index Qualifier	M ID 1/2

Code identifying an index

1. *Use code 1 or 2 once per matrix to indicate the start of the matrix. Use multiple iterations as needed citing codes 3 or 4 to define additional cell ranges to be loaded within a single matrix.*
2. *In an absolute reference (codes 1 and 3) use the alphanumeric identifiers (e.g., A1 and E1) in INX02-02 and INX02-03 to identify the range of cells to be loaded.*
3. *In a relative reference (codes 2 and 4), use the alphanumeric identifier, e.g., B3, in INX02-02 to identify the specific cell to start at and in INX02-03, provide a count of cells to load starting from that location.*
4. *Example of an absolute load pattern loading 15 cells (A1..E1,*

*A2..E2, A3..E3): INX*1*1:A1:E3@*

*5. Example of a relative load pattern that starts at cell B3 and loads 3 cells top to bottom: INX*2*3:B3:3@*

- 1 Matrix Start - Absolute Reference
- 2 Matrix Start - Relative Reference
- 3 Matrix Continuation - Absolute Reference
- 4 Matrix Continuation - Relative Reference

M	INX02	C036	Index Identification	M
			To identify an index	
	C03601	1395	Configuration Type Code	O ID 1/1
			Code defining how information is being grouped or arrayed	
			<i>Use to indicate the pattern of loading the cells.</i>	
			1 Horizontal, Left to Right	
			2 Horizontal, Right to Left	
			3 Vertical, Top to Bottom	
			4 Vertical, Bottom to Top	
			5 Individual Cell	
	C03602	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			<i>In either an absolute or relative reference, use to identify the cell that begins the range of a load operation, e.g., B3.</i>	
	C03603	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			<i>1. When INX01 is code 1 or 3 (absolute reference), use to describe the cell which ends this iteration of the load operation, e.g., E3.</i>	
			<i>2. When INX01 is code 2 or 4 (relative reference), use to provide a count of the number of cells from the specified start to be loaded.</i>	
	C03604	863	X-Peg	X R 1/6
			Horizontal distance from the edge to the center of the peg hole (measured from the left)	
			<i>Use only when INX02-01 is code 5 (individual cell) to identify the column letter of a single cell to be loaded.</i>	
	C03605	864	Y-Peg	X R 1/6
			The vertical distance from the edge to the center of the peg hole as specified by the peg code	
			<i>Use only when INX02-01 is code 5 (individual cell) to identify the row number of a single cell to be loaded.</i>	

Segment:	K3 File Information
Position:	1300
Loop:	INX Optional
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To transmit a fixed-format record or matrix contents
Syntax Notes:	
Semantic Notes:	1 K303 identifies the value of the index.
Notes:	<i>Use multiple repetitions as needed of this K3 segment within a 2/INX/1200 loop iteration to identify each cell within the beginning and ending range identified by the INX segment.</i>

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	K301	449 Fixed Format Information Data in fixed format agreed upon by sender and receiver <i>Use to identify the cell contents.</i>	M AN 1/80
Not Used	K302	1333 Record Format Code Code specifying the format of information	O ID 1/2
Not Used	K303	C001 Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
Not Used	C00101	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
Not Used	C00102	1018 Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018 Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00108	1018 Exponent	O R 1/15

			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

Segment: **PPL** Price Support Data
Position: 1700
Loop: PPL Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide information about pricing support

Syntax Notes:

Semantic Notes: 1 PPL02 is the start date.
 2 PPL03 is the end date.

Notes: *1. When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop), use of this segment is REQUIRED to provide project total price. Use a single iteration of this PPL loop and within it a single iteration of the 2/PD/1900 loop to provide this project total price.*

2. When detailed budget data is being provided in this transaction set, use subsequent iterations of the PPL loop to identify each budget period (e.g., a project with a planned duration of 2 budget periods would utilize 3 iterations of the PPL loop). Use the 2/PD/1900 loop to provide costs for specific budget categories (salaries, equipment, etc.).

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Not Used	PPL01	1309	Acquisition Data Code	O ID 2/2
			Code identifying acquisition data	
	PPL02	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
			<i>This date is used to indicate the start date of the budget period.</i>	
	PPL03	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
			<i>This date is the end date of the budget period.</i>	
	PPL04	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			<i>1. In one iteration of this PPL segment within the Project and any Subproject and Consortium loops, the letter T is REQUIRED to indicate the total project price. When instructed in the solicitation or announcement, also provide the project totals by category.</i>	
			<i>2. When data is being provided by budget period in additional PPL segment iterations, cite 1, 2, 3, etc. to identify the budget periods. To specify quarters for the initial budget period, cite 1Q1, 1Q2, 1Q3, or 1Q4 to identify the quarter.</i>	

PPL05 1401 Proposal Data Detail Identifier Code O ID 1/3

Code identifying the basis of a cited value in a proposal

1. Use code AA to indicate the values in PD/PDD are the actual unadjusted cost for the budget item without reductions to accommodate non-Federal cost sharing contributions.

2. Use code AC to indicate the values in PD/PDD are the requested cost for the budget item with reductions to accommodate non-Federal cost sharing contributions.

3. Use code AQ to indicate the values in PD/PDD are the non-Federal cost sharing contributions.

AA Actual Amount

Use to indicate that the values in 2/PD/1900 & 2/PDD/2000 are the actual unadjusted cost for the budget item. No reductions have been made to accommodate non-Federal cost sharing contributions (2/PD07/1900 code 88).

AC Negotiated Amount

Use to indicate that the values in 2/PD/1900 & 2/PDD/2000 are the requested cost for the budget item. Reductions have been made to accommodate non-Federal cost sharing contributions (2/PD07/1900 code 88).

AQ Cost Share Amount

Use to indicate that the values in 2/PD/1900 & 2/PDD/2000 are the contribution/cost shared amounts for the budget item.

Segment: **PD Pricing Data**
Position: 1900
Loop: PD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe the pricing basic input detail
Syntax Notes:
Semantic Notes:

- 1 PD01 is the unit of the time period contained in PD02.
- 2 PD02 is the date of the start of the time period in PD01.
- 3 PD04 is the quantity of the unit of measurement in PD03.
- 4 PD05 is the name of the cost element being proposed.
- 5 PD06 is the description of the name of the cost element being proposed.
- 6 PD08 is a reference to a specific paragraph number contained in an external document.
- 7 PD09 is the category of the data being proposed.

Notes: *Use this PD loop to identify budget categories, rates, and totals associated with a category. Use the PD segment to identify the name of a category and the 2/PDD/2000 segment to identify the amounts budgeted for the category.*

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	PD01	344	Unit of Time Period or Interval	M ID 2/2
Code indicating the time period or interval				
<i>1. Cite the appropriate code to indicate the period defined for this budget category.</i>				
<i>2. For budget categories where a period is NOT applicable (e.g., supplies, equipment), cite code CC in order to meet the X12 syntax requirements of this data element.</i>				
		AP	Academic Period	
		CC	Cycles	
<i>Use to indicate a budget period not described by another code.</i>				
		CY	Calendar Year	
		QY	Quarter of a Year	
<i>Use to indicate a quarterly time period.</i>				
		SP	Summer Period	
M	PD02	373	Date	M DT 8/8
Date expressed as CCYYMMDD				
<i>Use is REQUIRED to identify the beginning date for the period indicated in PD01.</i>				
M	PD03	C001	Composite Unit of Measure	M

			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			DO Dollars, U.S.	
			P1 Percent	
			<i>Use when the PD07 category requires a percentage (e.g., indirect charges, fringe benefits).</i>	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			<i>Use, if applicable, only when PD03-01 is code DO.</i>	
			8S Session	
			<i>Use to indicate the individual's or labor category's base salary for the period specified in PD01, i.e., year, academic period, etc.</i>	
			HR Hours	
			<i>Use to indicate an amount priced on an hourly basis.</i>	
			MO Months	
			<i>Use to indicate an amount priced on a monthly basis.</i>	
			YR Years	
			<i>Use to indicate an amount priced on an annual basis.</i>	
Not Used	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2

			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
M	PD04	380	Quantity Numeric value of quantity	M R 1/15
			<p><i>1. When PD03-01 is code P1, use to identify a percentage rate (e.g., fringe benefits and indirect costs). Cite 50% as 50; cite 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).</i></p> <p><i>2. When PD03-01 is code DO and PD03-04 is not used, use to indicate a discrete amount is specified in 2/PDD03/2000. Cite 1 to meet the rules of X12 syntax. This PD04 value of 1 should not be used by the receiving application.</i></p> <p><i>3. When PD03-01 is code DO and PD03-04 is 8S, use to identify the individual's or labor category's base salary for the period specified in PD01.</i></p> <p><i>4. When PD03-01 is code DO and PD03-04 is code HR, MO, or YR, use to identify the related amount (dollars/hour, dollars/month, dollars/year) applicable to the budget category, e.g., labor, rentals, services, etc.</i></p>	
M	PD05	93	Name Free-form name	M AN 1/60
			<p><i>1. Use to identify a budget category by a "short-hand" or coded means.</i></p> <p><i>2. If desired, this name can be taken from the organization's cost accounting system.</i></p> <p><i>3. If PD07 provides a coded means for identifying the budget item and this data element is not needed, then cite the letter "X" to satisfy X12 syntax requirements.</i></p>	
	PD06	352	Description A free-form description to clarify the related data elements and their	O AN 1/80

content

When PD05 carries a short-hand description taken from a cost accounting system that is not readily understandable, use to identify the budget category in a free-form text "long-hand" description. A "long-hand" description only needs to be provided the first time the "short-hand" name is used.

PD07	1196	Breakdown Structure Detail Code	O ID 2/2
Codes identifying details relating to a reporting breakdown structure tree			
<i>1. Use to identify the budget category or aggregated costs applicable to this PD loop.</i>			
<i>2. The use of the term indirect costs is currently called F&A. However, since most Federal forms still use the term "indirect", for the purposes of this implementation, the term indirect will be used.</i>			
01		Labor	
			<i>Use to indicate direct labor wage/salary for Senior Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i>
03		Other Direct Costs (ODC)	
			<i>Use to indicate the Total Other Direct Costs. This is the sum of codes 04, 39, 43, 46, 80, 81, 82, 86, 87, EH, and RL. Aggregate this sum into Total Direct Costs (code 84).</i>
04		Subcontract	
			<i>1. When HL03 is code PC (Project loop), use to indicate the sum of all subawards (subcontracts) within the Project. Aggregate into Total Other Direct Costs (code 03).</i>
			<i>2. When HL03 is code SP (Sub-project loop) or CO (consortium loop), use to indicate subcontracts and second-tier consortium contracts budgeted within this loop. Aggregate into Total Other Direct Costs (code 03).</i>
06		Labor Overhead	
			<i>Use to indicate Labor Overhead (excludes fringe benefits). Aggregate into Total Indirect Costs (code 09).</i>
08		Other Overhead	
			<i>Use to indicate the other base for the indirect costs base.</i>
09		Total Overhead	
			<i>1. Use to indicate the Total Indirect Costs. This is the sum of Labor Overhead (code 06) and General</i>

and Administrative (G&A) (code 33). Aggregate into Total Cost (code 38).

2. This category may be called F&A in current terms. However, most Federal forms still use the term Indirect Cost.

11	Engineering Labor	<i>Use to indicate direct labor wage/salary for Key Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i>
15	Interdivisional Work Authorization	<i>In construction grants, use to indicate the Total Construction project cost.</i>
16	Intercomponent Work Authorization	<i>In construction programs, use to indicate demolition and removal. Aggregate to code 15.</i>
18	Funds Appropriation	<i>Use to indicate the total cash contribution. Aggregate all cash contributions into Total Contribution (code 88).</i>
19	Nonrecurring Labor	<i>Use to indicate direct labor wage/salary for Other Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i>
26	Recurring	<i>In construction programs, use to indicate administrative and legal expenses. Aggregate to code 15.</i>
28	Total	<i>Use to indicate the Total Amount Requested. This is the sum of the Total Cost (code 38) and any applicable Profit or Fee (code 35). Aggregate into Total Project Cost (code 36).</i>
33	General & Administrative	<i>Aggregate into Total Indirect Costs (code 09).</i>
35	Profit or Fee	<i>Use in SBIR, STTR, and other appropriate applications to indicate a fixed-fee. Aggregate into Total Amount Requested (code 28).</i>
36	Total Price	<i>Use to indicate the Total Project Cost. Total Project Cost is the sum of Total Amount Requested (code 28) and the Cost Sharing contribution (code</i>

	88).
38	Total Cost Plus General & Administrative <i>Use to indicate Total Cost. This is the sum of Total Direct Costs (code 84) and Total Indirect Costs (code 09). Aggregate into Total Amount Requested (code 28).</i>
39	Other Costs <i>Use to indicate items within Other Direct Costs that are not identified by a specific code. Aggregate into Total Other Direct Costs (code 03).</i>
40	Standard <i>1. Use to indicate an In-kind contribution by the applicant organization. Aggregate into code 83.</i> <i>2. Identify the grant program in PD08. This may be the CFDA number.</i>
41	Variance <i>In construction programs, use to indicate other architectural and engineering fees not included in code 62. Aggregate to code 15.</i>
42	Purchased Equipment <i>Use to indicate the acquisition of permanent equipment. Aggregate into Total Purchased Equipment (code 72).</i>
43	Materials and Purchased Items <i>Use to indicate total material and supplies. Do not itemize the individual items. Aggregate into Total Other Direct Costs (code 03).</i>
46	Commercial Effort <i>Use to indicate costs associated with ancillary service contracts. Aggregate into Total Other Direct Costs (code 03).</i>
47	Total Direct Cost Base <i>Use to indicate the modified total direct cost base.</i>
48	Indirect Labor <i>Use to indicate Total Fringe Benefits. This is the sum of all Employee Benefits (code 49). Aggregate into Total Labor Costs (code 71).</i>
49	Employee Benefits <i>Use to indicate individual or labor category fringe benefits. Aggregate into Total Fringe Benefits (code 48).</i>
51	Employment

	<i>Use to indicate the indirect cost base for salary and wages.</i>
52	Communications and Travel <i>Use to indicate Total Travel. This is the sum of domestic travel (code 73) and foreign travel (code 74). Aggregate into Total Direct Costs (code 84).</i>
53	Production Related <i>In construction programs, use to indicate site work. Aggregate to code 15.</i>
56	Administration <i>Use to indicate Participant insurance. Aggregate into Participant Total Costs (code 79).</i>
57	Future Business <i>Use to indicate Program Income.</i>
62	Engineering <i>In construction programs, use to indicate architectural and engineering fees. Aggregate to code 15.</i>
67	Manufacturing <i>1. Use to indicate construction costs in a non-construction application. Aggregate to 03.</i> <i>2. In construction programs, use to construction costs. Aggregate to code 15.</i>
70	Total Salaries and Wages <i>Use to indicate Total Direct Labor. This is the sum of all Labor (code 01). Aggregate into Total Labor Costs (code 71).</i>
71	Total Salaries and Wages and Employee Benefits <i>Use to indicate Total Labor Costs. This is the sum of Total Direct Labor Costs (code 70) and Total Fringe Benefits (code 48). Aggregate into Total Direct Costs (code 84).</i>
72	Total Purchased Equipment <i>Use to indicate Total Purchased Equipment. This is the sum of all Purchased Equipment (code 42). Aggregate into Total Direct Costs (code 84).</i>
73	Travel - Domestic <i>Aggregate into Total Travel (code 52).</i>
74	Travel - Foreign <i>Aggregate into Total Travel (code 52).</i>
75	Participant Stipends

	<i>Aggregate into Participant Total Costs (code 79).</i>
77	Participant Travel
	<i>Aggregate into Participant Total Costs (code 79).</i>
78	Participant Other
	<i>Includes training related expenses. Aggregate into Participant Total Costs (code 79).</i>
79	Participant Total
	<i>Use to indicate Participant Total Costs. This is the sum of codes 56, 75, 77, 78, EX, FE and TU. Aggregate into Total Direct Costs (code 84).</i>
80	Publication Costs
	<i>Aggregate into Total Other Direct Costs (code 03).</i>
81	Consultant Services
	<i>Aggregate into Total Other Direct Costs (code 03).</i>
82	Computer Automated Data Processing (ADP) Services
	<i>Aggregate into Total Other Direct Costs (code 03).</i>
83	Funding From Non-Federal Sources
	<i>Use to indicate the total in-kind contribution. Aggregate all in-kind contributions in Total Contribution (code 88).</i>
84	Total Direct Costs
	<i>Use to indicate Total Direct Costs. This is the sum of codes 03, 52, 71, 72, 79, 85 and BL. Aggregate into Total Costs (code 38).</i>
85	Human Subject Costs
	<i>Use to indicate the total inpatient costs. Aggregate into Total Direct Costs (code 84).</i>
86	Animal Costs
	<i>Aggregate into Total Other Direct Costs (code 03).</i>
87	Alterations and Renovations
	<i>Aggregate into Total Other Direct Costs (code 03).</i>
88	Cost Sharing
	<i>Use to indicate the grant Total Contribution to the project; this includes cash (code 18) and in-kind contributions (code 83) from non-Federal sources.</i>
90	Project/Task
	<i>In construction programs, use to indicate project inspection fees. Aggregate to code 15.</i>
BL	Billings
	<i>Use to indicate the total outpatient costs. Aggregate into Total Direct Costs (code 84).</i>

CM	<p>Commitments</p> <p><i>Use to indicate a Consultant that is considered to be direct labor. Aggregate into code 70 Total Direct labor. (If the consultant is an ODC use code 81)</i></p>
D4	<p>Work Level Recipient</p> <p><i>Use to indicate direct labor wage/salary for Post Doctoral Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i></p>
D5	<p>Allotment Recipient</p> <p><i>Use to indicate direct labor wage/salary for Other Professional Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i></p>
D6	<p>Sub-allotment Recipient</p> <p><i>Use to indicate direct labor wage/salary for Graduate Students Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i></p>
D7	<p>Work Center Recipient</p> <p><i>Use to indicate direct labor wage/salary for Secretarial/Clerical Person. Aggregate direct labor wage/salary into Total Direct Labor (code 70).</i></p>
EH	<p>Equipment Maintenance</p> <p><i>Use to indicate the cost of equipment maintenance. Aggregate into Total Other Direct Costs (code 03).</i></p>
EX	<p>Expenditures</p> <p><i>Use to indicate participant subsistence. Aggregate into Participant Total Costs (code 79).</i></p>
FE	<p>Participant Fees</p> <p><i>Use to indicate participant fees. Aggregate into Participant Total Costs (code 79).</i></p>
FR	<p>Forward Priced</p> <p><i>1. Use to indicate a "State" cash contribution. Aggregate into code 18.</i></p> <p><i>2. 2. Identify the grant program in PD08. This may be the CFDA number.</i></p>
H1	<p>Cost Code</p> <p><i>1. Use to indicate a "Local" cash contribution. Aggregate into code 18.</i></p> <p><i>2. Identify the grant program in PD08. This may be the CFDA number.</i></p>
J1	<p>Document or Record Reference Number</p> <p><i>1. Use to indicate an "Other" cash contribution.</i></p>

Aggregate into code 18.

2. Identify the grant program in PD08. This may be the CFDA number.

MR Management Reserve

In construction programs, use to indicate contingencies. Aggregate to code 15.

NP Non-production

1. Use to indicate an In-kind contribution by Other than applicant organization. Aggregate into code 83.

2. Identify the grant program in PD08. This may be the CFDA number.

RL Rental or Lease of Equipment or Facilities

Use to indicate rent/lease of equipment/facilities. Aggregate into Total Other Direct Costs (code 03).

SC Service Contracts

In construction programs, use to indicate land, structures, rights-of-way, appraisals, etc. Aggregate to code 15.

TC Termination Costs

In construction programs, use to indicate relocation expenses and payments. Aggregate to code 15.

TD Technical Data

Use to indicate a Technician. Aggregate to code 70 Total Direct Labor.

TR Training

Use to indicate direct labor/wages of Undergraduate students. Aggregate direct labor wage/salary into Total Direct Labor (code 70).

TU Participant Tuition

Use to indicate participant tuition. Aggregate into Participant Total Costs (code 79).

ZZ Mutually Defined

Use to indicate the indirect costs base for off-site, other special rate, or more than one rate involved.

PD08 127 Reference Identification O AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When PD07 is code 01 or 49, and PD09 is a project role, use to provide the Government User Identifier of all Key Persons.

2. When PD07 is code 01 or 49 and PD09 is a labor category, use is REQUIRED to identify the number of persons budgeted within that category. In addition to project employee categories, this includes categories for trainees, participants, and consultants.

3. For other PD07 categories, use as needed to identify a named individual to whom the cost pertains.

PD09 352 Description O AN 1/80

A free-form description to clarify the related data elements and their content

1. When PD07 is code 01 or 49, use is REQUIRED to identify the project role of the individual named in PD08 or a labor category. For labor categories, include words that describe the type of personnel (e.g., graduate students, donors, speakers, trainees, participants, clerical support, lab technicians) and identify the number of persons budgeted within the category in PD08.

2. When PD07 is code 09, use as needed to identify the type of the indirect cost rate (e.g. provisional, predetermined, final, or fixed).

3. When PD07 is code 73, or 74, use to identify the destination for the travel.

4. When PD07 is code 42, use is REQUIRED to identify the nomenclature of the equipment being purchased.

5. When PD07 is code 18, 83, or 88, use as needed to identify the source of the contribution, e.g., applicant, state, county, etc.

6. For other PD07 categories, use as needed to provide additional information necessary to describe the category.

Not Used PD10 1401 Proposal Data Detail Identifier Code O ID 1/3

Code identifying the basis of a cited value in a proposal

Segment: **PDD Pricing Data Detail**
Position: 2000
Loop: PD Optional
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To provide the rates, direct input, and pricing factors for each element of work, cross-referenced to an applicable request or submission

Syntax Notes: 1 At least one of PDD02 PDD03 or PDD04 is required.
Semantic Notes: 1 PDD01 is a sequential number assigned by the initiator.
Notes: 1. *Use of this PDD segment is REQUIRED for each iteration of the 2/PD/1900 segment.*
 2. *Use of this PDD segment is LIMITED to ONE occurrence per 2/PD/1900 loop iteration.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PDD01	350 Assigned Identification	M AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		<i>Use is REQUIRED to identify the number of months in the period specified in PD01.</i>	
	PDD02	380 Quantity	X R 1/15
		Numeric value of quantity	
		<i>1. When 2/PD03-01/1900 is code P1, use to indicate the base amount in dollars.</i>	
		<i>2. When 2/PD03-01/1900 is code DO and 2/PD03-04/1900 is code 8S, use to indicate the level of effort in months for the period.</i>	
		<i>3. When 2/PD03-01/1900 is code DO and 2/PD03-04/1900 is code HR, MO, or YR, use to indicate the quantity of the time units (e.g., number of hours) applicable to the rate in 2/PD04/1900.</i>	
		<i>4. When 2/PD03-01/1900 is code DO, 2/PD03-04/1900 is not used, and 2/PD07/1900 is code 42, use to identify the quantity of items being purchased, if applicable.</i>	
		<i>5. When 2/PD03-01/1900 is code DO, 2/PD03-04/1900 is not used, and 2/PD07/1900 is code 73 or 74, use to identify the total quantity of trips.</i>	
		<i>6. When 2/PD03-01/1900 is code DO, 2/PD03-04/1900 is not used, and 2/PD07/1900 is code 79, use to identify the total quantity of subjects.</i>	

			<p><i>7. When 2/PD03-01/1900 is code DO and 2/PD03-04/1900 is not used, and 2/PD07/1900 is other than 42, 73, 74, or 79, do not use this data element.</i></p>
	PDD03	782	<p>Monetary Amount X R 1/18</p> <p>Monetary amount</p> <p><i>1. When 2/PD03-01/1900 is code P1, identify the product of the rate in 2/PD04/1900 times the base amount in PDD02.</i></p> <p><i>2. When 2/PD07/1900 is code 83 or 88, use to identify the amount contributed.</i></p> <p><i>3. Use to identify the amount requested for the budget category in 2/PD07/1900.</i></p>
	PDD04	954	<p>Percent X R 1/10</p> <p>Percentage expressed as a decimal</p> <p><i>When 2/PD03-01/1900 is code DO and 2/PD03-04/1900 is code 8S, use with key personnel to indicate their average level of effort for the period. Cite .5 to indicate 50% (one-half time); cite .755 to indicate 75.5%.</i></p>
Not Used	PDD05	1401	<p>Proposal Data Detail Identifier Code O ID 1/3</p> <p>Code identifying the basis of a cited value in a proposal</p>

Segment: **LX** Assigned Number
Position: 3300
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Notes: *Use this LX loop to provide information regarding individuals and organizations associated with the project.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554 Assigned Number	M N0 1/6
		Number assigned for differentiation within a transaction set	
		<i>In the first iteration of this LX loop, cite 1. In each subsequent iteration, increment by 1.</i>	

Segment:	NM1 Individual or Organizational Name
Position:	3400
Loop:	LX Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To supply the full name of an individual or organizational entity
Syntax Notes:	<ol style="list-style-type: none"> 1 If either NM108 or NM109 is present, then the other is required. 2 If NM111 is present, then NM110 is required.
Semantic Notes:	1 NM102 qualifies NM103.
Notes:	<p><i>1. Use this 2/NM1/3400 segment to identify organizations and individuals associated with the application and professional profile.</i></p> <p><i>2. Use to identify individuals in an application by using the Key Person loop (HL03 is code 26). Each iteration of the Key Person loop will identify one individual.</i></p> <p><i>a. One Key Person loop and NMI segment is REQUIRED subordinate to the Project Loop to identify the Principal Investigator (NM101 code 9P). Additional Key Person Loops may be used, subordinate to the Project and any subordinate Sub-project or Consortium loops, to identify co-principal investigators, key persons, consultants or other employees as needed.</i></p> <p><i>b. At least two iterations of this NMI segment are REQUIRED within Other Support loops (HL03 is code OS), subordinate to a Key Person loop, to identify the supporting organization, and the principal investigator of the other support project. If the individual in the parent Key Person loop is not the Other Support project principal investigator, use NM101 code 9P within the Other Support loop to identify the principal investigator's name.</i></p> <p><i>3. One iteration of this NMI segment is REQUIRED in the Key Person loop (HL03 is code 26) of a professional profile. Use NM101 code 2J to indicate the individual.</i></p> <p><i>4. Use to identify organizations as needed:</i></p> <p><i>a. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) use NM101 code K8 to identify the Federal agency with which the indirect rates were negotiated.</i></p> <p><i>b. When HL03 is code SP (Sub-project loop), use NM101 code 1P as needed to identify the responsible organization.</i></p> <p><i>c. When HL03 is code CO (Consortium loop), use NM101 codes 1P and 75 to identify the responsible and participating organizations.</i></p> <p><i>d. When HL03 is code OS (Other Support loop), use of this segment with</i></p>

NM101 code 92 is REQUIRED to indicate the supporting organization.

5. NM101 codes 2J, 9P, and 9S require:

- a. an individual to be named (use NM103/04/05/06/07);
- b. identification of their affiliated organization if different than the applicant organization (use NM102/03 or NM108/09);
- c. their position title (use 2/N901/4000 code P5).

6. For NM101 codes 17, 9K, and EY provide to the extent known:

- a. an individual to be named (use NM103/04/05/06/07);
- b. their affiliated organization (use NM108/09 or N2) ;
- c. their position title (use 2/N901/4000 code P5).

The project role of the individual is REQUIRED in 2/EMS01/3900.

7. When NM101 is code 1P, 20, 61, 75, 92, and K8, use to identify an organization. Whenever possible, identify the organization using only a qualifier and number in NM108/09. The organization's full address was established at the time of registration as a Federal Government trading partner. Where no qualified number is available, specify the organization's name in the NM103 (and 2/N2/3500 as needed) and the full address in 2/N3/3600 - 2/N4/3700.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	NM101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		17 Consultant's Office	
			<i>When HL03 is code 26 (Key Person loop), use multiple occurrences as needed to indicate the name of a consultant. DO NOT USE if the consultant is identified as a key person (code 9K).</i>
		1P Provider	
			<i>When HL03 is code SP (Sub-project loop), or CO (Consortium loop), use to indicate the organization responsible for the Subproject or Consortium if different from the organization submitting the application (1/NM1/0900 code SE).</i>
		20 Foreign Supplier	
			<i>When HL03 is code PC (Project loop) and 2/YNQ/0900 is code H1, use multiple iterations as needed to indicate foreign organizations participating in the application.</i>
		2J Individual	
			<i>Use only with BGN07 code FG and HL03 code 26 to identify the individual for whom the</i>

	<i>professional profile is being submitted.</i>
61	Performed At <i>1. When HL03 is code PC (Project loop), use multiple iterations as needed to indicate the location(s) where project work will be performed in addition to the location identified by 1/NM101/0900 code FA or SE.</i> <i>2. When HL03 is code SP (Sub-project loop), CO (Consortium loop), or OS (Other Support loop), use multiple iterations as needed to indicate the location(s) where project work will be performed if different from or in addition to the location identified by 1/NM1/0900 code FA or SE.</i>
75	Participant <i>When HL03 is code CO (Consortium loop), use multiple iterations as needed to indicate the participating organizations within the consortium in addition to the organization identified by NM101 code 1P.</i>
92	Support Party <i>When HL03 is code OS (Other Support loop), use is REQUIRED to identify the active, pending, or planned other support organization.</i>
9K	Key Person <i>1. When HL03 is code 26 (Key Person loop), use to indicate a project key person.</i> <i>2. To identify the name of the organization associated with the person, use 2/N2/3500.</i>
9P	Investigator <i>1. In an application (BGN07 is code 65, 6A, 6C, 6N, 6R, 6S, S4, or TS) and HL03 is code 26 (Key Person loop), use is REQUIRED to indicate the principal investigator. There can only be one principal investigator in a Project loop.</i> <i>2. When HL03 is code OS (Other Support loop) and the individual in the parent Key Person loop is not the Other Support project principal investigator, use to identify the principal investigator's name.</i> <i>3. Do not use in a professional profile (BGN07 is code FG).</i>

		9S	Co-Investigator	
				<i>In an application (BGN07 is code 65, 6A, 6C, 6N, 6R, 6S, S4, or TS), when HL03 is code 26 (Key Person loop), use to indicate a co-investigator.</i>
		EY	Employee Name	
				<i>In an application (BGN07 is code 65, 6A, 6C, 6N, 6R, 6S, S4, or TS), when HL03 is code 26 (Key Person loop), use to indicate employees (nonclerical) other than principal and co-investigators and key persons.</i>
		II	Interested Party	
				<i>Use to indicate entities or locations that are "Areas Affected by Project".</i>
		K8	Filing Location	
				<i>When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), use to indicate the Department of Health and Human Services (DHHS) regional office or other organization with whom the indirect rate has been negotiated.</i>
		S1	Parent	
				<i>Use to identify the Parent organization of an organization used in another iteration of this 2/NM1/3400 segment. When used, must also use NM110 and NM111.</i>
M	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
		1	Person	
				<i>Use is REQUIRED with NM101 code 17, 2J, 9K, 9P, 9S, and EY.</i>
		2	Non-Person Entity	
				<i>Use is REQUIRED with NM101 codes 1P, 20, 61, 75, 92, and K8.</i>
	NM103	1035	Name Last or Organization Name	O AN 1/60
			Individual last name or organizational name	
	NM104	1036	Name First	O AN 1/35
			Individual first name	
	NM105	1037	Name Middle	O AN 1/25
			Individual middle name or initial	
	NM106	1038	Name Prefix	O AN 1/10
			Prefix to individual name	
	NM107	1039	Name Suffix	O AN 1/10

		Suffix to individual name	
NM108	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<i>While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.</i>	
		1	D-U-N-S Number, Dun & Bradstreet <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>
		10	Department of Defense Activity Address Code (DODAAC) <i>Use to indicate a DoD or Civilian Agency Activity Address.</i>
		33	Commercial and Government Entity (CAGE) <i>Use to indicate the specified organization's CAGE code.</i>
NM109	67	Identification Code	X AN 2/80
		Code identifying a party or other code	
NM110	706	Entity Relationship Code	X ID 2/2
		Code describing entity relationship	
		<i>Use only with NM101 code S1.</i>	
		01	Parent
NM111	98	Entity Identifier Code	O ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		<i>Use any code below to indicate the NM101 code of the organization which is subordinate to the organization identified in NM103 and/or NM108-9.</i>	
		<i>For example, if in a previous NMI iteration NM101 was code 92 and NM103 was the National Institutes of Health, then this NMI could have S1 in NM101, Health and Human Services in NM103, 01 in NM110 and 92 in NM111 to identify that HHS is the parent organization of NIH.</i>	
		1P	Provider
		20	Foreign Supplier
		61	Performed At

194 Grant or Assistance Application

75	Participant
92	Support Party
K8	Filing Location

Segment: **N2 Additional Name Information**

Position: 3500

Loop: LX Optional

Level: Detail

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Syntax Notes:

Semantic Notes:

Notes: *This segment is not necessary when the cited organization can be identified by a code value in 2/NM108,09/3400.*

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name	M AN 1/60
	N202	93	Name Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 3600
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Notes: *This segment is not necessary when the cited organization can be identified by a code value in 2/NM108,09/3400.*

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 3700
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

Semantic Notes:

Notes:

1. *This segment is not necessary when the cited organization can be identified by a code value in 2/NM108,09/3400.*
2. *When 2/NM101/3400 is code 61 and 2/N901/4000 is code RU, use of this segment is **REQUIRED** to identify the city, county, and state or province as specified in the Federal agency grant preparation instructions.*

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26 Country Code Code identifying the country <i>Use is REQUIRED when 2/NM101/3400 is code 20 and the organization is not identified by a qualified number in 2/NM108, 09/3400.</i>	X ID 2/3
N405	309 Location Qualifier Code identifying type of location CY County/Parish <i>When 2/NM101/3400 is code 61, use to indicate the county in which the project will be performed as specified in the Federal Agency grant application instructions.</i>	X ID 1/2
N406	310 Location Identifier Code which identifies a specific location	O AN 1/30
Not Used	N407 1715 Country Subdivision Code Code identifying the country subdivision	X ID 1/3

Segment: **PER** Administrative Communications Contact
Position: 3750
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Notes: *When 2/NM101/3400 is code 2J, 9P or 9S, use is REQUIRED to provide communications numbers associated with the principal investigator, all co-investigators, and the individual for whom the professional profile is being submitted.*

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		IC Information Contact	
	PER02	93 Name	O AN 1/60
		Free-form name	
		<i>Use to identify the name of a point of contact. Last name, followed by first name, is preferred. If the whole name is longer than 35 characters, the use of initials for the first name is recommended.</i>	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		TE Telephone	
	PER04	364 Communication Number	X AN 1/256
		Complete communications number including country or area code when applicable	
		<i>The telephone number shall be transmitted as a continuous number with no extraneous characters. Include the country code and area code. If an extension applies to the telephone number, concatenate the letter X plus the extension at the end of the number, e.g., 17035551212X123.</i>	
	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		FX Facsimile	
	PER06	364 Communication Number	X AN 1/256
		Complete communications number including country or area code when	

applicable

The fax number shall be transmitted as a continuous number with no extraneous characters. Include the country code and area code.

PER07	365	Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail	
PER08	364	Communication Number	X AN 1/256
		Complete communications number including country or area code when applicable	
PER09	443	Contact Inquiry Reference	O AN 1/20
		Additional reference number or description to clarify a contact number	
		<i>Use to provide the office symbol, mail stop, or organization routing code of the individual cited in PER02.</i>	

Segment:	DMG Demographic Information
Position:	3800
Loop:	LX Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To supply demographic information
Syntax Notes:	1 If either DMG01 or DMG02 is present, then the other is required.
Semantic Notes:	1 DMG02 is the date of birth. 2 DMG07 is the country of citizenship. 3 DMG09 is the age in years.
Notes:	1. <i>When HL03 is code 26 (Key Person loop) and 2/NM101/3400 is code 9P or 9S, use is REQUIRED to provide the citizenship status of the principal investigator and any Co-investigators. It may optionally be used to provide other demographic information.</i> 2. <i>Use multiple occurrences as needed to provide race and ethnicity codes.</i>

Data Element Summary

Ref.	Des.	Data Element Name	Attributes
DMG01	1250	Date Time Period Format Qualifier	X ID 2/3
		Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	
DMG02	1251	Date Time Period	X AN 1/35
		Expression of a date, a time, or range of dates, times or dates and times <i>Use to indicate the individual's date of birth. Express date in CCYYMMDD format.</i>	
DMG03	1068	Gender Code	O ID 1/1
		Code indicating the sex of the individual <i>Use only in the first occurrence of the DMG segment.</i>	
		A Not Provided	
		F Female	
		M Male	
Not Used	DMG04	1067 Marital Status Code	O ID 1/1
		Code defining the marital status of a person	
	DMG05	1109 Race or Ethnicity Code	O ID 1/1
		Code indicating the racial or ethnic background of a person; it is normally self-reported; Under certain circumstances this information is collected for United States Government statistical purposes <i>If more than one code applies, use multiple DMG segments for additional stratification.</i>	
		7 Not Provided	

A	Asian or Pacific Islander <i>Use only for Asian. Use code P for Pacific Islander.</i>
B	Black
C	Caucasian
H	Hispanic <i>Use for Hispanic or Latino.</i>
I	American Indian or Alaskan Native
P	Pacific Islander <i>Use to indicate a Native Hawaiian or other Pacific Islander.</i>

DMG06 1066 Citizenship Status Code O ID 1/2

Code indicating citizenship status

1. When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop) and 2/NM101/3400 is code 9P or 9S, use is REQUIRED to provide citizenship status regarding the Principal Investigator and any Co-investigators.

2. Use only in the first occurrence of the DMG segment.

1	U.S. Citizen
2	Non-Resident Alien
3	Resident Alien <i>Use to indicate the Principal Investigator or Co-investigator is not a US citizen but has been lawfully admitted to the US for permanent residence.</i>
8	Citizen <i>Use to indicate person elects not to provide citizenship status.</i>

Not Used DMG07 26 Country Code O ID 2/3

Code identifying the country

Not Used DMG08 659 Basis of Verification Code O ID 1/2

Code indicating the basis of verification

Not Used DMG09 380 Quantity O R 1/15

Numeric value of quantity

Segment: **EMS** Employment Position
Position: 3900
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe employment position
Syntax Notes: 1 If either EMS05 or EMS06 is present, then the other is required.
Semantic Notes: 1 EMS01 describes the employee's title or position in text.
 2 EMS02 defines the employment position relationship.
 3 EMS03 defines the occupation category.
 4 EMS04 defines the status of employment.
 5 EMS05 identifies EMS06 as pay grade.
 6 EMS06 defines pay grade for employee, if available.
Notes: *In Key Person loops, use, if applicable, to indicate that the principal or co-investigator has a disability. Also use to identify the project role of key employees (2/NM101/3400 is code 9K only [not needed with 17, 9P, 9S, or EY].*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	EMS01	352 Description	O AN 1/80
		<p>A free-form description to clarify the related data elements and their content</p> <p><i>1. When 2/HL03 is code 26 (Key Person Loop) and 2/NM101/3400 is code 9P or 9S, and if the principal investigator has a disability (EMS04 is code DS), use to cite the nature of the disability.</i></p> <p><i>2. When 2/HL03/0100 is code 26 (Key Person Loop) and 2/NM101/3400 is code 9K use to identify the project role of the key person.</i></p> <p><i>3. When EMS04 is used with code DS to indicate a disability, identify the disability using the following code.</i></p> <p><i>0 Not Provided</i></p> <p><i>1 Vision Impaired</i></p> <p><i>2 Hearing Impaired</i></p> <p><i>3 Mobility Impaired-Non-Paralytic</i></p> <p><i>4 Speech Impaired</i></p> <p><i>5 Partial Paralysis</i></p> <p><i>6 Complete Paralysis</i></p> <p><i>7 Missing Extremities</i></p> <p><i>8 Other</i></p>	
Not Used	EMS02	1176 Employment Class Code	O ID 2/3
		Code indicating category of employee	

Not Used	EMS03	1149	Occupation Code Code identifying the occupation of an individual	O ID 4/6
Must Use	EMS04	584	Employment Status Code Code showing the general employment status of an employee/claimant DS Disabled	O ID 2/2
<i>When 2/HL03/0100 is code 26 (Key Person Loop) and 2/NM101/3400 is code 9P or 9S, use to indicate that the investigator has a disability. Use disability codes in EMS01 to identify the disability.</i>				
Not Used	EMS05	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	EMS06	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	EMS07	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30

Segment: **N9 Reference Identification**
Position: 4000
Loop: N9 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Notes:

1. *Use to identify references associated with the entity cited in 2/NM101/3400.*
2. *When HL03 is code OS (Other Support loop) and 2/NM101/3400 is code 92, use of this segment is REQUIRED to identify the award number (code CT) or application number (code BD).*

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		19 Division Identifier	
			<i>When 2/NM101/3400 is code 2J, 9K, 9P, or 9S, use to indicate the major subdivision name of the individual's organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.</i>
		5C Congressional District	
			<i>When 2/NM101/3400 is code 61, use to indicate the Congressional district in which the project is performed as specified in the Federal Agency grant application instructions. Use multiple iterations of this segment with code 5C if the work is performed in more than one Congressional district.</i>
		9F Referral Number	
			<i>When 2/NM101/3400 is code 17, use to indicate the number of days for consultation.</i>
		AH Agreement Number	
			<i>When HL03 is code PC (Project loop) and 2/NM101/3400 is code K8, use to indicate whether the indirect rate is current or pending. If the rate is</i>

	<i>current, cite CURRENT in N903 and the date in N904. If the rate is pending, cite PENDING in N903.</i>
BD	<p>Bid Number</p> <p><i>1. When HL03 is code OS (Other Support loop) , 2/NM101/3400 is code 92, and the Other Support is pending or planned, cite the supporting organization's application number in N902, when known. Use the 2/MTX/4100 segment to identify the project title.</i></p> <p><i>2. When the pending or planned support is for the same as this application, cite the word SAME in N903 and do not use codes K5 or YV.</i></p>
CT	<p>Contract Number</p> <p><i>When HL03 is code OS (Other Support loop), 2/NM101/3400 is code 92, and the Other Support is active, cite the supporting organization's award number in N902. Use the 2/MTX/4100 segment to identify the project title.</i></p>
GE	<p>Geographic Number</p> <p><i>When 2/NM101/3400 is code 61, use to indicate a geographic location not otherwise identified. Cite the name of the location in N903 and, if required, provide the coordinates in N907. If needed, use N907-01 and N907-03 to pass longitude and latitude coordinates.</i></p>
JD	<p>User Identification</p> <p><i>1. Use to indicate the Government User Identifier. Use in an application when the individual identified in 2/NM1/3400 is a key person (code 9K, 9P, or 9S).</i></p> <p><i>2. Use is REQUIRED in a professional profile (1/BGN07/0200 is code FG and 2/NM101/3400 code is 2J).</i></p>
K5	<p>Task Order</p> <p><i>When HL03 is code OS (Other Support loop), use to indicate the goals of the other project. Cite the word GOALS in N903 and use the following 2/MTX/410 segment to provide the description.</i></p>
L4	<p>Proposal Paragraph Number</p> <p><i>1. In applications (when 2/NM101/3400 is code 9P, 9K, or 9S) and professional profiles (2/NM101/3400 is code 2J) when HL03 is code 26</i></p>

(Key Person loop), use to indicate the paragraph number that describes the text that will appear in the 2/MTX/4100 segment associated with the individual identified in the 2/NM1/3400 segment. This includes the individual's published articles when specific Federal Agency instructions direct that they be provided in free-form text.

2. Use multiple iterations as needed to completely describe the required information.

P5	Position Code <i>When 2/NM101/3400 is code 17, 2J, 9K, 9P, 9S or EY, use is REQUIRED to indicate the position title of the individual. Cite the title in N903.</i>
P6	Pipeline Number <i>When 2/NM101/3400 is code 61, use to indicate a pipeline designation. Provide the coordinates in N907. If needed, use N907-01 and N907-03 to pass longitude and latitude coordinates.</i>
RC	Rail Routing Code <i>When 2/NM101/3400 is code 61, use to indicate a railway designation. When this code is used, the N4 segment is REQUIRED. Cite the owner of the railway in N903.</i>
RU	Route Number <i>When 2/NM101/3400 is code 61, use to indicate a roadway designation, e.g., I-95, US Highway 1, State Route, 274. When this code is used, the N4 segment is REQUIRED. If needed, use N907-01 and N907-03 to pass mileage markers.</i>
SY	Social Security Number <i>When HL03 is code 26 (Key Person loop) and 2/NM101/3400 is code 9P or 9S, use to indicate the social security number of the Principal Investigator and any Co-Investigators. Transmit as a continuous number without extraneous characters, spaces, or separators.</i>
YV	Participating Area <i>Use only when HL03 is code OS (Other Support loop) to indicate the overlap between the other project and the project being proposed. Cite the word OVERLAP in N903 and use the following 2/MTX/4100 segment to provide an explanation of the overlap.</i>

N902 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When N901 is code BD and there is no unique identification number associated with the application, cite NONE.

2. When N901 is code L4, cite the applicable paragraph number from the list below.

3. For codes D.2-D.9 use a separate iteration of the N9 loop to identify each different event (e.g., each employment position should be in a separate N9 loop, each advisor should be in a separate N9 loop, etc.).

Para # Subject Area

D Biographical

D.1 Experience

D.2 Employment History

D.3 Honors

D.4 Memberships/Associations

D.5 Publications

D.5.1 Medline Accession Number

D.5.2 Other Electronic Library

D.6 Advisors

D.7 Advisees

D.8 Collaborators/Nature of Collaboration

D.9 Other Conflicts of Interest (Use only in applications)

N903	369	Free-form Description	X AN 1/45
		Free-form descriptive text	
		1. When N901 is code GE, use is REQUIRED to identify the name of the geographic location.	
		2. When N901 is code RC, use is REQUIRED to identify the owner of the railway.	
N904	373	Date	O DT 8/8
		Date expressed as CCYYMMDD	
		When HL03 is code PC (Project loop), N901 is code AH and N903 cites CURRENT, use to indicate the date of the indirect rate agreement.	
Not Used	N905	337 Time	X TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	N906	623 Time Code	O ID 2/2
		Code identifying the time. In accordance with International Standards	

Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

	N907	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
M	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
		76	Milestone	
			<i>When N901 is code RU, use to indicate the roadway milepost associated with the location cited in 2/N4/3700.</i>	
		DP	Department Number	
			<i>Use as needed when N901 is code 19 to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the individual's organization. For example, Department of Industrial Engineering or Sales Department. Cite the name in N907-02.</i>	
		LK	Longitude expressed in Degrees, Minutes and Seconds	
			<i>When N901 is code GE or P6, use to indicate the longitude for the location.</i>	
M	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
		76	Milestone	
			<i>When N901 is code RU, use to indicate a second roadway milepost associated with the location cited in 2/N4/3700, if needed.</i>	
		LQ	Latitude Expressed in Degrees, Minutes and Seconds	
			<i>When N901 is code GE or P6, use to indicate the latitude for the location.</i>	
	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment:	MTX Text
Position:	4100
Loop:	N9 Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify textual data
Syntax Notes:	<ol style="list-style-type: none"> 1 If MTX01 is present, then MTX02 is required. 2 If MTX03 is present, then MTX02 is required. 3 If MTX05 is present, then MTX04 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MTX05 is the number of lines to advance before printing.
Notes:	<ol style="list-style-type: none"> 1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) and N901 is code CT or BD, use to provide the title of the Other Support Project. 2. When HL03 is code 26 (Key Person loop), SP (Sub-project loop), or CO (Consortium loop) and N901 is code L4, use to identify biographical data including experience, honors, and memberships/associations of the individual identified in the 2/NM1/3400 segment. 3. When HL03 is code OS (Other Support loop) and N903 cites the word GOALS, use to indicate the goals of the other project. 4. When HL03 is code OS (Other Support loop) and N903 cites the word OVERLAP, use to explain the overlap between the other project and the project being proposed.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Not Used	MTX01	363 Note Reference Code	O ID 3/3
		Code identifying the functional area or purpose for which the note applies	
Must Use	MTX02	1551 Message Text	X AN 1/4096
		To transmit large volumes of message text	
	MTX03	1551 Message Text	O AN 1/4096
		To transmit large volumes of message text	
Not Used	MTX04	934 Printer Carriage Control Code	X ID 2/2
		A field to be used for the control of the line feed of the receiving printer	
Not Used	MTX05	1470 Number	O N0 1/9
		A generic number	
	MTX06	819 Language Code	O ID 2/3
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	

Segment: DEG Degree Record**Position:** 4200**Loop:** DEG Optional**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To provide the receiving institution or agency notice of academic awards made to the student whose record is being transmitted**Syntax Notes:** 1 If either DEG02 or DEG03 is present, then the other is required.**Semantic Notes:** 1 DEG02 and DEG03 refer to the date the degree was awarded.

2 DEG05 indicates the type of honors the student received with the degree.

Notes: 1. When HL03 is code 26 (Key Person loop), and 2/NM101/3400 is code 2J, 9K, 9P, or 9S, use of this DEG loop is **REQUIRED** to identify the academic degree history of all Key Personnel.

2. Use multiple iterations as needed to identify all pertinent degrees.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	DEG01	1126 Academic Degree Code	M ID 3/3
		Code indicating the level of postsecondary academic award earned by a student	
		<i>Use one of the following degree codes:</i>	
		2.1 Postsecondary Certificate or diploma (less than one year)	
		2.2 Postsecondary Certificate or diploma (one year or more but less than four years)	
		2.3 Associate Degree (e.g., Associate in Science)	
		2.4 Baccalaureate Degree	
		2.5 Baccalaureate (Honors) Degree	
		3.1 First Professional Degree	
		3.2 Post-Professional Degree	
		4.1 Graduate Certificate	
		4.2 Master's Degree	
		4.3 Intermediate Graduate Degree	
		4.4 Doctoral Degree	
		4.5 Post-Doctoral Degree	
Must Use	DEG02	1250 Date Time Period Format Qualifier	X ID 2/3
		Code indicating the date format, time format, or date and time format	
		CM Date in Format CCYYMM	
		<i>Use to indicate the century, year, and month in which the degree was awarded.</i>	
Must Use	DEG03	1251 Date Time Period	X AN 1/35
		Expression of a date, a time, or range of dates, times or dates and times	

	DEG04	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			<i>Use to identify the type of degree (e.g., PHD, MD, DVM, JD, etc.) for the level of degree provided in DEG01.</i>	
Not Used	DEG05	641	Status Reason Code	O ID 3/3
			Code indicating the status reason	

Segment:	FOS Field of Study
Position:	4300
Loop:	DEG Optional
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To provide the receiving institution or agency with information about a course or field of study associated with an academic program
Syntax Notes:	<ol style="list-style-type: none"> 1 If either FOS02 or FOS03 is present, then the other is required. 2 At least one of FOS02 or FOS04 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 FOS02 and FOS03 are the student's program of study. 2 FOS06 indicates the number of years or fractional parts of a year a course or field of study was studied. 3 FOS07 indicates grade point average in the course or field of study.
Notes:	<i>Use of this FOS segment is REQUIRED in each 2/DEG/4200 loop iteration to identify the field of study for which the degree was conferred.</i>

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	FOS01	1153		Academic Field of Study Level or Type Code	M ID 1/1
				Code indicating the field of study being described for a student in an academic institution by indicating how it was used in the academic program or indicating a course area in a field of study	
				M Major	
Not Used	FOS02	66		Identification Code Qualifier	X ID 1/2
				Code designating the system/method of code structure used for Identification Code (67)	
Not Used	FOS03	67		Identification Code	X AN 2/80
				Code identifying a party or other code	
Must Use	FOS04	352		Description	X AN 1/80
				A free-form description to clarify the related data elements and their content	
				<i>Use to identify the broad area of study (e.g., Chemistry or Physics).</i>	
	FOS05	352		Description	O AN 1/80
				A free-form description to clarify the related data elements and their content	
				<i>Use to identify an area of specialization within the broad area.</i>	
Not Used	FOS06	380		Quantity	O R 1/15
				Numeric value of quantity	
Not Used	FOS07	380		Quantity	O R 1/15
				Numeric value of quantity	

Segment: **N1** Name
Position: 4400
Loop: DEG Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Notes: *Use of this N1 segment is REQUIRED in each 2/DEG/4200 loop iteration to identify the institution of higher education which conferred the degree.*

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		1R University, College or School	
	N102	93 Name	X AN 1/60
		Free-form name	
		<i>Use only if no coded means of identifying the educational institution is available.</i>	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<i>While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.</i>	
		1 D-U-N-S Number, Dun & Bradstreet	
		<i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		<i>Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.</i>	
		10 Department of Defense Activity Address Code (DODAAC)	
		<i>Use to indicate a DoD or Civilian Agency Activity Address.</i>	
		33 Commercial and Government Entity (CAGE)	
		<i>Use to indicate the specified organization's CAGE</i>	

		<i>code.</i>		
	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
Not Used	N105	706	Entity Relationship Code	O ID 2/2
			Code describing entity relationship	
Not Used	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	

Segment: **SE** Transaction Set Trailer
Position: 4800
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
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)

Syntax Notes:
Semantic Notes:

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number as appears in ST02.</i>	