

Data Set Catalog # 189

Explorer 14, Trapped Rad Reduction
Magnetic Tapes

DD-08612 - DD-08680
DC-07167 - DC-07235

69 tapes

62-051A-05A

SPMS-00328

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

EXPLORER 14

TRAPPED RADIATION REDUCTION DATA

62-051A-05A

SPMS-00328

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED 69 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. AT THE TIME OF RESTORATION, TWO OF THESE TAPES WERE BAD; D008648 AND D008656. WHEN THE ORIGINAL TAPES WERE FIRST INGESTED, THERE WERE 10 TAPES THAT WERE BAD; D008630, D008631, D008634, D008635, D008653, D008669, D008670, D008671, D008676, AND D008677. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 7094 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR001799	DS001799	D008612	1	10/02/62 - 10/07/62
		D008613	2	10/07/62 - 10/12/62
		D008614	3	10/12/62 - 10/16/62
		D008615	4	10/16/62 - 10/19/62 (a)
		D008616	5	10/21/62 - 10/25/62
		D008617	6	10/25/62 - 10/30/62 (b)
		D008618	7	10/30/62 - 11/03/62
		D008619	8	11/03/62 - 11/08/62
		D008620	9	11/08/62 - 11/12/62
		D008621	10	11/12/62 - 11/17/62
		D008622	11	11/17/62 - 11/21/62
		D008623	12	11/22/62 - 11/26/62
DR001800	DS001800	D008624	1	11/26/62 - 12/01/62
		D008625	2	12/01/62 - 12/05/62
		D008626	3	12/05/62 - 12/10/62
		D008627	4	12/10/62 - 12/14/62
		D008628	5	12/14/62 - 12/19/62
		D008629	6	12/19/62 - 12/23/62 (c)
		D008632	7	01/01/63 - 01/06/63
		D008633	8	01/06/63 - 01/09/63 (d)
		D008636	9	01/23/63 - 01/24/63
		D008637	10	01/24/63 - 01/29/63
		D008638	11	01/29/63 - 02/02/63

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DR#	DS#	D#	FILES	TIME SPAN
DR001801	DS001801	D008639	1	02/02/63 - 02/07/63
		D008640	2	02/07/63 - 02/11/63
		D008641	3	02/11/63 - 02/16/63 (e)
		D008642	4	02/16/63 - 02/20/63
		D008643	5	02/21/63 - 02/25/63
DR002223	DS002223	D008644	1	02/25/63 - 03/02/63
		D008645	2	03/02/63 - 03/06/63
		D008646	3	03/06/63 - 03/11/63
		D008647	4	03/11/63 - 03/15/63
		D008649	5	03/20/63 - 03/24/63
		D008650	6	03/24/63 - 03/27/63
		D008651	7	04/01/63 - 04/02/63
		D008652	8	04/02/63 - 04/05/63
		D008654	9	04/12/63 - 04/16/63 (f)
DR002181	DS002181	D008655	1	04/16/63 - 04/21/63
		D008657	2	04/25/63 - 04/30/63
		D008658	3	04/30/63 - 05/03/63
		D008659	4	05/03/63 - 05/08/63
		D008660	5	05/08/63 - 05/12/63
		D008661	6	05/12/63 - 05/17/63
		D008662	7	05/17/63 - 05/22/63
		D008663	8	05/22/63 - 05/26/63 (g)
		D008664	9	05/26/63 - 05/31/63
		D008665	10	05/31/63 - 06/04/63
DR002182	DS002182	D008666	1	06/04/63 - 06/09/63
		D008667	2	06/09/63 - 06/13/63
		D008668	3	06/13/63 - 06/17/63
		D008672	4	07/02/63 - 07/06/63
		D008673	5	07/06/63 - 07/11/63
		D008674	6	07/11/63 - 07/15/63
		D008675	7	07/15/63 - 07/20/63
		D008678	8	07/29/63 - 08/02/63
		D008679	9	08/02/63 - 08/07/63 (h)
		D008680	10	08/07/63 - 08/10/63

- (a) D008615 - 2 errors, records 1221, 1222, File 1
 (b) D008617 - 3 errors, records 13, 14, 2726, File 1
 (c) D008629 - 1 error, record 2203, File 1
 (d) D008633 - 2 errors, records 2749, 2752, File 1
 (e) D008641 - 1 error, record 28, File 1
 (f) D008654 - 2 errors, records 98, 757, File 1
 (g) D008663 - 1 error, record 2794, File 1
 (h) D008679 - 1 error, record 262, File 1

March 26, 1973

To: Data Repository

From: ADP Services

Subject: Explorer 14 Trapped Rad Reduction tapes

Please release the following D numbers: DD08630, DD08631, DD08634, DD08635, DD08669, DD08670, DD08671, DD08676 and DD08677. Also release the corresponding C numbers: DC07185, DC07186, DC07189, DC07190, DC07224, DC07225, DC07226, DC07231 and DC07232. These tapes, when received, or when processed, were determined to be blank.

EXPLORER 14

TRAPPED RAD REDUCTION MAGNETIC TAPES

DD-08612 - DD-08680

DC-07167 - DC-07235

This data set contains 69 Trapped Rad Reduction Tapes. These tapes are all 800 BPI, Binary, 7 track, 1 file, 7094 tapes.

<u>D#</u>	<u>C#</u>	<u>13 SD TAPE NUMBER</u>	<u>START</u>	<u>STOP</u>
D-08612	C-07167	01	10/02/62	- 10/07/62
D-08613	C-07168	02	10/07/62	- 10/12/62
D-08614	C-07169	03	10/12/62	- 10/16/62
D-08615	C-07170	04	10/16/62	- 10/19/62
D-08616	C-07171	05	10/21/62	- 10/25/62
D-08617	C-07172	06	10/25/62	- 10/30/62
D-08618	C-07173	07	10/30/62	- 11/03/62
D-08619	C-07174	08	11/03/62	- 11/08/62
D-08620	C-07175	09	11/08/62	- 11/12/62
D-08621	C-07176	10	11/12/62	- 11/17/62
D-08622	C-07177	11	11/17/62	- 11/21/62
D-08623	C-07178	12	11/22/62	- 11/26/62
D-08624	C-07179	13	11/26/62	- 12/01/62
D-08625	C-07180	14	12/01/62	- 12/05/62
D-08626	C-07181	15	12/05/62	- 12/10/62
D-08627	C-07182	16	12/10/62	- 12/14/62
D-08628	C-07183	17	12/14/62	- 12/19/62
D-08629	C-07184	18	12/19/62	- 12/23/62
D-08630	C-07185	19		
D-08631	C-07186	20		
D-08632	C-07187	21	01/01/63	- 01/06/63

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<u>D#</u>	<u>C#</u>	13 SD <u>TAPE NUMBER</u>	<u>START</u>	<u>STOP</u>
D-08633	C-07188	22	01/06/63	- 01/09/63
D-08634	C-07189	23		
D-08635	C-07190	24		
D-08636	C-07191	25	01/23/63	- 01/24/63
D-08637	C-07192	26	01/24/63	- 01/29/63
D-08638	C-07193	27	01/29/63	- 02/02/63
D-08639	C-07194	28	02/02/63	- 02/07/63
D-08640	C-07195	29	02/07/63	- 02/11/63
D-08641	C-07196	30	02/11/63	- 02/16/63
D-08642	C-07197	31	02/16/63	- 02/20/63
D-08643	C-07198	32	02/21/63	- 02/25/63
D-08644	C-07199	33	02/25/63	- 03/02/63
D-08645	C-07200	34	03/02/63	- 03/06/63
D-08646	C-07201	35	03/06/63	- 03/11/63
D-08647	C-07202	36	03/11/63	- 03/15/63
D-08648	C-07203	37	03/15/63	- 03/20/63
D-08649	C-07204	38	03/20/63	- 03/24/63
D-08650	C-07205	39	03/24/63	- 03/27/63
D-08651	C-07206	40	04/01/63	- 04/02/63
D-08652	C-07207	41	04/02/63	- 04/05/63
D-08653	C-07208	42		
D-08654	C-07209	43	04/12/63	- 04/16/63
D-08655	C-07210	44	04/16/63	- 04/21/63
D-08656	C-07211	45	04/21/63	- 04/25/63
D-08657	C-07212	46	04/25/63	- 04/30/63
D-08658	C-07213	47	04/30/63	- 05/03/63
D-08659	C-07214	48	05/03/63	- 05/08/63

<u>D#</u>	<u>C#</u>	13 SD <u>TAPE NUMBER</u>	<u>START</u>	<u>STOP</u>
D-08660	C-07215	49	05/08/63	- 05/12/63
D-08661	C-07216	50	05/12/63	- 05/17/63
D-08662	C-07217	51	05/17/63	- 05/22/63
D-08663	C-07218	52	05/22/63	- 05/26/63
D-08664	C-07219	53	05/26/63	- 05/31/63
D-08665	C-07220	54	05/31/63	- 06/04/63
D-08666	C-07221	55	06/04/63	- 06/09/63
D-08667	C-07222	56	06/09/63	- 06/13/63
D-08668	C-07223	57	06/13/63	- 06/17/63
D-08669	C-07224	58		
D-08670	C-07225	59		
D-08671	C-07226	60		
D-08672	C-07227	61	07/02/63	- 07/06/63
D-08673	C-07228	62	07/06/63	- 07/11/63
D-08674	C-07229	63	07/11/63	- 07/15/63
D-08675	C-07230	64	07/15/63	- 07/20/63
D-08676	C-07231	65		
D-08677	C-07232	66		
D-08678	C-07233	67	07/29/63	- 08/02/63
D-08679	C-07234	68	08/02/63	- 08/07/63
D-08680	C-07235	69	08/07/63	- 08/10/63

6/21/73- These 'D' tapes were sent to the
National Archives for storage. Only the
'C' tapes remain here for this data set.
PAR.

* NOTE:

1. Tapes not generated:

- a. DD-08630 (13SD19)
- b. DD-08631 (13SD20)
- c. DD-08634 (13SD23)
- d. DD-08635 (13SD24)

2. Tapes with orbit data missing:

- a. DD-08648 (13SD37)
- b. DD-08649 (13SD38)
- c. DD-08650 (13SD39)
- d. DD-08651 (13SD40)

3. On tapes DD-08652 (13SD41) and DD-08653 (13SD42) data may be missing and intermixed on the tapes.

4. Blank tapes:

- a. DD-08669 (13SD58)
- b. DD-08670 (13SD59)
- c. DD-08671 (13SD60)
- d. DD-08676 (13SD65)
- e. DD-08677 (13SD66)

S-3A SOFT RADIATION DATA REDUCTION SYSTEM
(used to produce Data Set 62-051A-05A)

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Prepared By

P. F. Barry	R. S. Silverberg
S. L. Bernstein	T. P. Smith
C. J. Cattell	A. R. Thompson
D. S. Elliott	E. R. Whitehurst

Scientific Satellite Systems Department
Federal Systems Division
INTERNATIONAL BUSINESS MACHINES CORPORATION
Gaithersburg, Maryland

Prepared For

Goddard Space Flight Center
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Greenbelt, Maryland

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2. PROGRAM INFORMATION

2.1 Definition of Terms

Primary Input Tapes - Data tapes containing files which will be processed in the order in which they are contained on the tapes.

Batch - The output data contained on one output tape. The size of a batch is input to the program as the number of primary input tapes to be processed per each output tape.

Print File - On DCS - The first file of information listed on the printer. On stand-alone 7094 - that information which is written on the on-line printer.

BCD Listing File - On DCS - The second file of information listed on the printer. On stand-alone 7094 - that BCD information which is written on tape for off-line listing.

Data Block - 256 time continuous frames of data from one complete 16 position wheel revolution.

Frame 0 - Imaginary frame whose time is one frame period before the first frame of the data block.

2.2 Program Description

The program first reads a parameter card to determine the total number of primary input tapes to be processed this run (NPRIM), the number of primary input tapes to be processed per batch (IBCHSZ), and the month, day, and year of this run of the MERGE program (IRUNMO, IRUNDY, and IRUNYR). See Section 3.1.1 for detailed description and format. After the setting of constants and the rewinding of tapes used, the program enters the file processing section.

The file processing section reads the file ID record from the tape and tests for the end of tape signal. If the end of tape record is present, a message is written in the BCD listing file and the program switches to the alternate primary drive if more tapes are to be processed. If the batch size has been reached, the program ends the present output tape and switches to the alternate output drive. The program then re-enters the file processing section.

If the end of tape record was not present, the program writes the ID information in the BCD listing file. The sun right ascension and declination are obtained once per file by taking the start time of the first data block found, adding 30 minutes and then calling the HELOS subroutine. (See Appendix A.) Both the sun right ascension and declination are written in the BCD listing file at the beginning of processing each data file.

The basic unit of data processed within the file is the data block. In order to qualify as a data block, the following conditions must be met:

- a. There must be 256 time continuous frames. The program will pad up to 10 frames at any given time break. In order to be time continuous, the time difference between frames must be within 10 percent of the expected frame period. The expected frame period is set at the start of the program and is updated during the run if it consistently differs by more than 1.5 percent from the actual frame period.
- b. The data must be in sync, i.e., the channel 2 readings for the 256 frames must continuously conform to the 16 frame high-low sync pattern for the satellite. Short deviations from the sync pattern are accepted within the 256 frames provided the high-low pattern is present at both the start and end of the data block.
- c. The data block must be wheel position continuous, i.e., the legal wheel positions present must show no evidence of sticking or skipping. Consequently, the last legal wheel position must show its correct relationship to the first legal wheel position for a correct revolution to exist. Any of the 16 wheel positions may be the first in the block as long as the above requirements are met. The wheel position is calculated using PP7 of Channel 15 (See Appendix B for Wheel Position Equation).

The MRGSNC subroutine fills the data blocks according to the above conditions. Any time that data is discarded due to failure to meet these qualifications, a line is written in the BCD listing file stating the number of frames discarded and the cause. A running total of good and bad frames per file is kept and a summary and percentage recovery is written at the end of each file. Upon successful filling of a data block, the MRGSNC subroutine also calculates the average frame period of the block, the wheel position-frame 0, the quasi-clock reading-frame 0, and the quasi-clock frame count (of 240)-frame 0.

Upon returning from MRGSNC, the main program computes the start time of frame 0 making sure that the day count is relative to the launch year. It then calls the ROLCAL subroutine which searches the channel 0 and 1 readings to find the see-sun data. ROLCAL returns the number of see-suns found and two arrays with an entry in each for every see-sun. The first entry contains the time of the see-sun in eighths of a frame from the start of the block and the second entry contains the N2-N3 value for the see-sun in the form $10 \times (N2+1) + (N3+1)$. The number of see-suns and both arrays are saved for output as part of the binary record.

Since the input data is not in chronological order and since time corrections to the data have not been determined or applied, the program does not attempt to supply any orbit information for the data block. The standard fields for the orbital information are present but remain = 0 to be filled in subsequently. The orbit return is set = 1 although no calls are made to any orbit subroutine.

The quality control checks which were previously performed on continuous data blocks are not performed by the S3-A MERGE program because they use orbit information and roll coefficients, both of which are not calculated. These fields exist but are also set = 0.

The quality control checks which are performed consist of the calculation of five values using data only from the current data block. The five values are:

1. The average of the legal channel 15 - PP1 reading.
2. The RMS of the differences between the legal channel 15 - PP1 readings and their average.
3. The average of the legal channel 15 - PP13 readings.
4. The RMS of the differences between the legal channel 15 - PP13 readings and their average.
5. The number of illegal channel 15 readings in the complete data block.

These values are saved for output as part of the current data record on tape and in the BCD listing file.

At the completion of the quality checks the program writes the current data record on the tape and the one line of print for the data block in the BCD listing file. The program then loops back through the process of filling, testing, and writing out until the end of the file is reached. When the end of file is reached, the program re-enters the file processing section and looks for the ID record or end-of-tape record following the present file.

3. INPUT AND OUTPUT SPECIFICATIONS

3.1 Setup Information

<u>Logical Unit</u>	<u>Description</u>
18-A8	First output tape
19-A9	Alternate output tape
15-B5	First primary input data tape
16-B6	Alternate primary input data tape

3.2 Input Specifications

3.2.1 Input Parameter Card:

Format (I2, I4, 2I2, I4)		
<u>Col</u>	<u>Name</u>	<u>Description</u>
1-2	NPRIM	Number of primary input tapes to be processed
3-6	IBCHSZ	Batch size - number of primary input tapes/batch
7-8	IRUNMO	Month of year - this run
9-10	IRUNDY	Day of month - this run
11-14	IRUNYR	Year this run in form XXXX

3.2.2 Input Data Tape(s)

The BCD input data tapes contain any number of files. Each file contains one ID record followed by any number of data records. All records on the tape are 224 words (1344 characters) long. After the last data file there is a one record file in which all characters are "nines" to signify end-of-tape.

The ID record contains a 12 character string which is repeated throughout the record. The format of the 12 character string is:

<u>Characters</u>	<u>Information Contained</u>
1,2	Satellite number
3,4	Month of year
5,6	Day of month
7	Year (X of 196X)
8,9	Station number
10,11,12	Analog tape number

Each data record contains a 42 character string for each of 32 frames. The format of the 42 character string is:

<u>Character</u>	<u>Information Contained</u>
1,2,3	Day of year
4,5	Hour of day
6,7	Minutes
8,9	Seconds
10,11,12	Milliseconds
13 through 18	Quasi-clock reading
19,20,21	Channel 2
22,23,24	Channel 8
25,26,27	Channel 9
28,29,30	Channel 10
31,32,33	Channel 15
34,35,36	Channel 0
37,38,39	Channel 1
40 through 42	Not examined by program

3.3 Output Specifications

3.3.1 Print File and BCD Listing File

The print file contains a listing of the contents of the input card. It is written at the start of the program.

The BCD listing file starts with the writing of the date of the program run. (See Appendix C for sample listing.) The listing contains the following information per file:

- a. ID information, and logical unit number on which the tape is mounted.
- b. The number of frames and cause whenever frames are discarded.
- c. Sun right ascension and declination.
- d. One line printout for each good data block.
- e. File summary showing total frames, frames accepted, frames discarded and the percent recovery.

The one-line printout for each good data block contains the following information from left to right:

- a. Time frame 0 - day and fraction of day.
- b. Delta-frame period in fraction of day.
- c. McIlwain's L parameter frame 0, = 0 for S3-A.
- d. Orbit subroutine return, = 1 for S3-A.
- e. RMS of the fit of the roll equation, = 0 since no fit is attempted.
- f. NSS - number of see-suns found.
- g. N2N3 - = 0 for S3-A.
- h. IWH - wheel position frame 0.
- i. Quasi-clock reading frame 0.
- j. Quasi-clock count (of 240) frame 0.
- k. Roll difference for time consecutive blocks, = 0 for S3-A.
- l. L parameter difference for time consecutive blocks, = 0 for S3-A.
- m. Average of channel 15, PP1 readings.
- n. RMS of the deviations from the channel 15, PP1 average.
- o. Average of channel 15, PP13 readings.
- p. RMS of the deviations from the channel 15, PP13 average.
- q. Number of illegal channel 15 readings this block.

The BCD listing file is created as the events occur. Besides the above information, it also contains reports at the following times:

- a. Processing completed on a primary input tape.
- b. Batch completed.
- c. Whenever any error conditions arise.
- d. End of job.

3.3.2 Output Tape Specifications

The logical units on which the tape output by the S-3A MERGE program is written are 18 (primary) and 19 (alternate). The tape is in binary parity and IBM (7040/7094) DCS compatible. It contains one record of 460 words for each 256 frame data block followed by an end of file mark. The format of the 460 word record is as follows:

<u>Work Number</u>	<u>Contents</u>
1	DCS record number word
2	DCS BCI name word
3	DCS record control word
4	FORTTRAN binary record word count
5-79	A 75 word array containing the orbit and other parameters as described below.
80-335	A 256 word array where each word contains the channel 8 log number, channel 9 log number, channel 10 log number and the channel 15 CF number for one frame of data. The structure of each word is as follows:

<u>Bits</u>	<u>Information Contained</u>
1-10	Channel 8 log number
11-19	Channel 9 log number
20-28	Channel 10 log number

<u>Bits</u>	<u>Information Contained</u>
29-36	Channel 15 comb filter number
336-375	An array containing the times of each see-sun in eighths of a frame from the start of the block--one entry/see-sun.
376-415	An array containing the N2-N3 value for each see-sun in the form $((N2+1) \cdot 10) + (N3+1)$. -- one entry/see-sun
416-456	Pad of zeros
457	The station-analog tape number representing removed records of similar data
458	Record No.
459	Word in form DDDFFF (D=Day, F=Fraction)
460	Group number - unique representation of station-analog tape

Parameter Array, PAR (75)

The 75 word parameter array contains time, orbit, and other parameters for the 256 frames of data. The parameters which are variable in 256 frame sequence are expressed as first or second degree polynomials and only their coefficients are given the PAR (75) array. For example:

$$\text{Time, start of frame } N = A + B \cdot N = \text{PAR}(2) + \text{PAR}(3) \cdot N$$

where N can have values 1 through 256 and the time is expressed in fractions of a day. Similarly the orbit parameters, i.e., L value, are given by:

$$L = A + B \cdot N + C \cdot N^2 = \text{PAR}(16) + \text{PAR}(17) \cdot N + \text{PAR}(18) \cdot N^2$$

where L is in earth radii and N as above.

All entries in the PAR(75) array are in floating point and the format is shown in the following table:

<u>Word Number</u>	<u>Parameter</u>	<u>Units</u>
1	Day of launch year	Days
2-3	Coeff. for fract. of day	Days
4-6	Field for coeff. for geographic longitude	Radians
7-9	Field for coeff. for geographic latitude	Radians
10-12	Field for coeff. for geocentric distance	Km
13-15	Field for coeff. for rt. asc. of subsat point	Radians
16-18	Field for coeff. for McIlwain's L parameter	Earth radii
19-21	Field for coeff. for magnetic field strength	Gamma
22-24	Field for coeff. for B/B equator	Ratio
25-27	Field for coeff. for rt. asc. of magnetic field	Radians
28-30	Field for coeff. for decl. of magnetic field	Radians
31-33	Field for coeff. for sin (decl. of field)	
34-36	Field for cos (dec. of F) · sin (R. A. of F)	
37-39	Field for coeff. for cos (dec. of F) · cos (R. A. of F)	
40	Field for orbital data quality, = 1 for S3-A	
41-43	Not assigned	
44	Number of see-suns	
45	Not assigned	
46	Wheel position number zeroth frame	
47	Quasi clock reading zeroth frame	
48	Quasi clock frame count of zeroth frame	
49	Rt. asc. of sun	Radians
50	Decl. of sun	Radians
51	Satellite ID number	
52	Station-analog tape number	(SSAAA)
53	Not assigned	
54	MERGE prog. production date	
55	Production date from edit tape ID record	
56	Not assigned	
57	Not assigned	
58	Not assigned	
59	PP1 - Ch. 15 - voltage - average	
60	RMS - PP1 - Ch. 15 - voltage	
61	PP13 - Ch. 15 - temperature - average	
62	PP13 - Ch. 15 - RMS - temperature	
63	Number of illegal Ch. 15 readings	
64-75	Not assigned	

ET CATALOG

The following listing contains time and position information on Explorer 14 for each orbit from orbit zero thru orbit 210. The format of the listing is;

Column No.	Contents
13 1	Tape id number XX, where the complet ID is 13SDXX.
2	Orbit Number
3	Perigee Time (as Day and Fraction of Year 1962)
4	Shadow entry time (4 and 5 are zero on orbit where no
5	Shadow exit time shadowing was encountered)
6	Declination of Perigee (degrees)
7	Right Ascension of Perigee (degrees)
8	Altitude of Perigee (Kilometers)
9	Apogee Time
10	Altitude of Apogee

Notes

- Each tape should contain time ordered data recorded on three consecutive orbits. The limits on the time span of data on a given tape containing orbits N thru N+2 are the perigee time of orbit N and perigee time of orbit N+3.
- Tapes ⁰⁸⁶³⁰13SD19, ⁰⁸⁶⁰¹13SD20, ²⁴13SD22, and ⁰⁸⁶³⁵13SD23 were not generated.
- Orbit data is missing on ⁰⁸⁶⁴⁸13SD37, ⁰⁸⁶⁴⁹13SD38, ⁰⁸⁶⁵⁰13SD39, and ⁰⁸⁶⁵¹13SD40.
- On tapes ⁰⁸⁶⁵²13SD41 and ⁰⁸⁶⁵³13SD42 data may be missing and intermixed on the two tapes.

1350 TAPE NO.		PERIGEE TIME		SHADOW TIME		PERIGEE LOCATION			APOGEE	
NO.		TIME		ENTRY	EXIT	DEC.	RT.ASC.	ALT.	TIME	APOGEE ALT.
01	0.	275.9323000	275.9323000	275.9494630	15.90	294.70	6645.	276.68994	104895.	
	1.	277.4494420	277.4496614	277.4668284	15.73	294.57	6652.	278.20825	104885.	
	2.	278.9669418	278.9673041	278.9840306	15.50	294.86	6653.	279.72559	104864.	
02	3.	280.4843723	280.4850394	280.5012210	15.61	294.52	6661.	281.24292	104839.	
	4.	282.0018024	282.0027685	282.0183129	15.53	294.53	6677.	282.76025	104812.	
	5.	283.5191638	283.5204615	283.5352077	15.17	295.06	6699.	284.27759	104853.	
03	6.	285.0362498	285.0380150	285.0518551	15.27	294.78	6717.	285.79492	104840.	
	7.	286.5531223	286.5553662	286.5681732	15.23	294.69	6732.	287.31177	104835.	
	8.	288.0699303	288.0725900	288.0842247	14.93	295.11	6734.	288.82837	104836.	
04	9.	289.5867330	289.5898920	289.6001505	14.83	295.16	6726.	290.34497	104837.	
	10.	291.1036804	291.1075585	291.1160211	14.95	294.80	6719.	291.86157	104832.	
	11.	292.6209005	292.6260103	292.6315828	14.81	294.95	6724.	293.37964	104819.	
05	12.	294.1381942	0.0	0.0	14.61	295.19	6742.	294.89722	104800.	
	13.	295.6553442	0.0	0.0	14.55	295.14	6766.	296.41382	104782.	
	14.	297.1720137	0.0	0.0	14.51	295.05	6790.	297.93115	104721.	
06	15.	298.6887469	0.0	0.0	14.35	295.20	6802.	299.44775	104715.	
	16.	300.2054136	0.0	0.0	14.11	295.50	6804.	300.96094	104715.	
	17.	301.7219416	0.0	0.0	14.38	294.87	6799.	302.48120	104719.	
07	18.	303.2386776	0.0	0.0	14.10	295.24	6790.	303.99707	104771.	
	19.	304.7563171	0.0	0.0	14.00	295.18	6777.	305.51514	104773.	
	20.	306.2733998	0.0	0.0	13.77	295.43	6773.	307.03174	104769.	
08	21.	307.7905529	0.0	0.0	13.63	295.54	6775.	308.54907	104760.	
	22.	309.3077060	0.0	0.0	13.60	295.50	6785.	310.06665	104748.	
	23.	310.8247887	0.0	0.0	13.58	295.37	6801.	311.58398	104720.	
09	24.	312.3417338	0.0	0.0	13.56	295.45	6818.	313.10059	104713.	
	25.	313.8584698	0.0	0.0	13.51	295.39	6827.	314.61719	104712.	
	26.	315.3750671	0.0	0.0	13.44	295.39	6826.	316.13379	104717.	
10	27.	316.8917338	0.0	0.0	13.19	295.68	6814.	317.65063	104723.	
	28.	318.4084698	0.0	0.0	13.34	295.31	6803.	319.16724	104739.	
	29.	319.9256219	0.0	0.0	13.10	295.59	6803.	320.68457	104729.	
11	30.	321.4428443	0.0	0.0	12.98	295.65	6818.	322.19849	104713.	
	31.	322.9599280	0.0	0.0	13.06	295.40	6839.	323.71875	104684.	
	32.	324.4770107	0.0	0.0	12.65	295.91	6855.	325.23242	104675.	
12	33.	325.9938171	0.0	0.0	12.58	295.91	6864.	326.75269	104674.	
	34.	327.5105531	0.0	0.0	12.49	295.92	6864.	328.26929	104679.	
	35.	329.0272915	0.0	0.0	12.45	295.85	6855.	329.78320	104686.	
13	36.	330.5440945	0.0	0.0	12.48	295.72	6843.	331.30273	104710.	
	37.	332.0611111	0.	0.	12.20	296.07	6832.	332.82014	104714.	
	38.	333.5781944	0.	0.	12.17	295.97	6826.	334.33750	104714.	
14	39.	335.0953472	0.	0.	12.26	295.72	6827.	335.85416	104708.	
	40.	336.6125694	0.	0.	12.16	295.76	6836.	337.37152	104699.	
	41.	338.1297222	0.	0.	12.09	295.75	6850.	338.88889	104690.	
15	42.	339.6468055	0.	0.	11.74	296.18	6864.	340.40555	104661.	
	43.	341.1636111	0.	0.	11.71	296.09	6877.	341.91944	104660.	
	44.	342.6802777	0.	0.	11.68	296.02	6876.	343.43611	104665.	
16	45.	344.1969444	0.	0.	11.67	295.91	6866.	344.95625	104688.	

16	46.	345.7138887	0.	0.	11.53	296.03	6854.	346.47292	104687.
	47.	347.2311111	0.	0.	11.41	296.08	6854.	347.99028	104676.
		348.7484720	0.	0.	11.21	296.27	6870.	349.50764	104658.
17	49.	350.2656944	0.	0.	11.15	296.24	6894.	351.02500	104641.
	50.	351.7827082	0.	0.	11.17	296.11	6915.	352.54166	104630.
	51.	353.2995833	0.	0.	11.13	296.04	6927.	354.05902	104609.
18	52.	354.8163887	0.	0.	11.08	295.97	6927.	355.57222	104610.
	53.	356.3332639	0.	0.	10.84	296.23	6923.	357.09236	104631.
	54.	357.8498535	0.	0.	10.76	296.22	6917.	358.60902	104635.
19	55.	359.3672885	0.0	0.0	10.72	296.17	6910.	360.12622	104636.
	56.	360.8845803	0.0	0.0	10.44	296.48	6907.	361.64355	104631.
	57.	362.4019414	0.0	0.0	10.32	296.54	6912.	363.16089	104621.
20	58.	363.9193025	0.0	0.0	10.32	296.42	6926.	364.67847	104608.
	59.	365.4365942	0.0	0.0	10.35	296.26	6945.	366.19580	104578.
	60.	366.9537473	0.0	0.0	10.25	296.30	6959.	367.70972	104567.
21	61.	368.4706914	0.0	0.0	10.24	296.19	6973.	369.22974	104562.
	62.	369.9875671	0.0	0.0	9.94	296.52	6977.	370.74634	104561.
	63.	371.5043725	0.0	0.0	9.98	296.34	6972.	372.26318	104579.
22	64.	373.0213887	0.0	0.0	9.78	296.54	6967.	373.78052	104573.
	65.	374.5387470	0.0	0.0	9.59	296.69	6971.	375.29785	104557.
	66.	376.0561804	0.0	0.0	9.72	296.40	6993.	376.81519	104533.
23	67.	377.5736089	0.0	0.0	9.48	296.64	7023.	378.33252	104509.
	68.	379.0909720	0.0	0.0	9.23	296.90	7052.	379.84717	104471.
	69.	380.6078447	0.0	0.0	9.21	296.80	7071.	381.36719	104461.
24	70.	382.1246526	0.0	0.0	9.29	296.57	7080.	382.88379	104456.
	71.	383.6415941	0.0	0.0	9.04	296.83	7082.	384.40063	104466.
	72.	385.1586804	0.0	0.0	8.83	296.98	7087.	385.91455	104463.
25	73.	386.6757616	0.0	0.0	9.01	296.63	7085.	387.43262	104457.
	74.	388.1930533	0.0	0.0	8.94	296.61	7088.	388.95190	104447.
	75.	389.7104838	0.0	0.0	8.77	296.75	7100.	390.46729	104430.
26	76.	391.2279836	0.0	0.0	8.45	297.08	7119.	391.98389	104410.
	77.	392.7453447	0.0	0.0	8.40	297.04	7145.	393.50122	104390.
	78.	394.2624978	0.0	0.0	8.56	296.71	7171.	395.01929	104373.
27	79.	395.7795805	0.0	0.0	8.26	297.02	7191.	396.53882	104362.
	80.	397.2964552	0.0	0.0	8.21	296.97	7194.	398.05347	104342.
	81.	398.8133309	0.0	0.0	8.25	296.81	7194.	399.57007	104336.
28	82.	400.3304861	401.6824115	401.7293549	7.94	297.13	7193.	401.09009	104337.
	83.	401.8477747	403.1880437	403.2620380	8.13	296.76	7207.	402.60474	104315.
	84.	403.3653449	404.7014068	404.7882134	7.85	297.04	7233.	404.12207	104286.
29	85.	404.8827754	406.2187242	406.3115980	7.76	297.06	7268.	405.63940	104257.
	86.	406.3999968	407.7387039	407.8334247	7.62	297.15	7301.	407.15674	104221.
	87.	407.9170805	409.2608959	409.3542248	7.58	297.10	7328.	408.67407	104206.
30	88.	409.4339552	410.7848566	410.8742801	7.47	297.14	7342.	410.19092	104196.
	89.	410.9508309	412.3102893	412.3936766	7.43	297.10	7348.	411.70752	104190.
	90.	412.4677749	413.8369828	413.9124321	7.46	296.94	7349.	413.22485	104184.
31	91.	413.9849280	415.3647281	415.4304221	7.18	297.23	7352.	414.74146	104183.
	92.	415.5021504	416.8936439	416.9475499	7.15	297.18	7359.	416.25879	104170.
	93.	417.0195137	418.4239326	418.4631188	7.17	297.05	7373.	417.77637	104151.
32	94.	418.5369420	0.0	0.0	7.02	297.15	7395.	419.29370	104128.
	95.	420.0542360	0.0	0.0	7.05	297.01	7423.	420.81104	104105.

33	96.	421.5714552	0.0	0.0	6.62	297.48	7452.	422.32837	104086.
	97.	423.0883331	0.0	0.0	6.66	297.32	7475.	423.84570	104073.
		424.6050669	0.0	0.0	6.74	297.11	7485.	425.36230	104058.
	99.	426.1218748	0.0	0.0	6.73	297.00	7485.	426.87915	104051.
34	100.	427.6389560	0.0	0.0	6.58	297.11	7484.	428.39648	104039.
	101.	429.1563193	0.0	0.0	6.43	297.22	7495.	429.91382	104017.
	102.	430.6738169	0.0	0.0	6.26	297.39	7520.	431.43115	103994.
35	103.	432.1912473	0.0	0.0	6.15	297.44	7556.	432.94849	103965.
	104.	433.7084004	0.0	0.0	6.10	297.40	7589.	434.46582	103943.
	105.	435.2253445	0.0	0.0	5.95	297.45	7611.	435.98315	103929.
36	106.	436.7420805	0.0	0.0	6.10	297.14	7624.	437.49927	103921.
	107.	438.2588859	0.0	0.0	6.02	297.16	7629.	439.01660	103916.
	108.	439.7757615	0.0	0.0	5.98	297.12	7629.	440.53320	103912.
37	109.	441.2927749	0.0	0.0	5.86	297.17	7630.	442.04980	103906.
	110.	442.8099280	0.	0.	5.68	297.32	7633.	443.56787	103895.
	111.	444.3271528	0.	0.	5.59	297.35	7643.	445.08472	103870.
38	112.	445.8444442	0.	0.	5.47	297.42	7661.	446.60208	103857.
	113.	447.3616666	0.	0.	5.37	297.45	7686.	448.11944	103838.
	114.	448.8787498	0.	0.	5.13	297.66	7712.	449.63680	103828.
39	115.	450.3954861	0.	0.	5.36	297.25	7733.	451.15347	103818.
	116.	451.9120137	0.	0.	5.46	297.03	7740.	452.67014	103814.
	117.	453.4287500	0.	0.	5.06	297.46	7736.	454.18611	103812.
40	118.	454.9456943	0.	0.	4.97	297.48	7730.	455.70347	103803.
	119.	456.4629166	0.	0.	5.05	297.29	7733.	457.22083	103785.
	120.	457.9803470	0.	0.	4.95	297.32	7755.	458.73819	103761.
41	121.	459.4976389	0.	0.	4.84	297.37	7785.	460.25555	103738.
	122.	461.0146528	0.	0.	4.83	297.29	7813.	461.77291	103721.
	123.	462.5315277	0.	0.	4.56	297.54	7831.	463.28958	103712.
42	124.	464.0481944	0.	0.	4.71	297.25	7838.	464.80625	103709.
	125.	465.5650000	0.	0.	4.34	297.62	7840.	466.32291	103710.
	126.	467.0817361	0.	0.	4.59	297.20	7834.	467.83958	103712.
43	127.	468.5987500	0.	0.	4.28	297.50	7829.	469.35694	103711.
	128.	470.1158333	0.	0.	4.21	297.50	7827.	470.87430	103707.
	129.	471.6330555	0.	0.	4.02	297.65	7831.	472.39097	103694.
44	130.	473.1502083	0.	0.	4.20	297.32	7842.	473.90833	103681.
	131.	474.6673611	0.	0.	4.17	297.27	7860.	475.42569	103668.
	132.	476.1844444	0.	0.	3.81	297.64	7879.	476.94236	103657.
45	133.	477.7011805	0.	0.	3.91	297.40	7894.	478.45903	103653.
	134.	479.2178472	0.	0.	3.64	297.66	7897.	479.97569	103655.
	135.	480.7343748	0.	0.	3.71	297.54	7885.	481.49236	103674.
46	136.	482.2512500	0.	0.	3.65	297.52	7872.	483.00972	103672.
	137.	483.7684720	0.	0.	3.66	297.41	7872.	484.52639	103660.
	138.	485.2859027	0.	0.	3.43	297.61	7890.	486.04375	103641.
47	139.	486.8031248	0.	0.	3.50	297.42	7916.	487.56111	103601.
	140.	488.3202083	0.	0.	3.25	297.64	7939.	489.07847	103589.
	141.	489.8369443	0.	0.	3.36	297.40	7952.	490.59514	103586.
48	142.	491.3536805	0.	0.	3.16	297.57	7953.	492.11180	103589.
	143.	492.8703471	0.	0.	3.30	297.29	7947.	493.62847	103616.
	144.	494.3872222	0.	0.	3.03	297.56	7934.	495.14514	103622.
49	145.	495.9041665	0.	0.	3.04	297.45	7924.	496.66250	103626.

44	146.	497.4213194	0.	0.	2.84	297.61	7918.	498.17986	103627.
	147.	498.9385415	0.	0.	2.82	297.55	7917.	499.69653	103603.
50	148.	500.4558333	0.	0.	2.78	297.59	7926.	501.21389	103595.
	149.	501.9730554	0.	0.	2.76	297.45	7939.	502.73125	103586.
	150.	503.4902083	0.	0.	2.53	297.65	7954.	504.24791	103579.
51	151.	505.0070832	0.	0.	2.56	297.52	7965.	505.76527	103578.
	152.	506.5238194	0.	0.	2.54	297.43	7957.	507.28194	103612.
	153.	508.0404861	0.	0.	2.38	297.53	7945.	508.79861	103619.
52	154.	509.5574305	0.	0.	2.33	297.51	7929.	510.31597	103620.
	155.	511.0747917	0.	0.	2.24	297.53	7925.	511.83333	103610.
	156.	512.5922916	514.1055573	514.1077845	2.29	297.37	7940.	513.35059	103593.
53	157.	514.1097915	515.6220308	515.6257112	2.10	297.54	7972.	514.86792	103548.
	158.	515.6268721	517.1384857	517.1432542	1.97	297.61	7993.	516.38452	103538.
	159.	517.1437498	518.6549494	0.	1.83	297.70	8003.	517.90186	103536.
54	160.	518.6604838	520.1715270	518.6606653	1.96	297.44	8004.	519.41870	103540.
	161.	520.1772915	521.6882473	520.1780621	1.93	297.39	7994.	520.93530	103567.
	162.	521.6941638	523.2051720	521.6955032	2.03	297.18	7983.	522.45190	103574.
55	163.	523.2113169	524.7222961	523.2130564	1.64	297.57	7972.	523.96924	103578.
	164.	524.7285393	526.2395608	524.7307268	1.62	297.52	7966.	525.48657	103578.
	165.	526.2458311	527.7569012	526.2484738	1.74	297.28	7966.	527.00415	103573.
56	166.	527.7632616	529.2742360	527.7662409	1.54	297.44	7974.	528.52148	103521.
	167.	529.2806227	530.7915030	529.2839116	1.46	297.35	8028.	530.03882	103501.
	168.	530.7979144	532.3083836	530.8015509	1.43	297.30	8042.	531.55615	103487.
57	169.	532.3148585	533.8251715	532.3188263	1.27	297.40	8046.	533.07349	103485.
	170.	533.8316638	535.3441301	533.8359722	1.20	297.41	8047.	534.58936	103494.
	171.	535.3506219	536.8608086	535.3552919	1.02	297.65	8008.	536.10815	103536.
58	172.	536.8672885	538.3775538	536.8722948	1.03	297.54	8016.	537.62549	103533.
	173.	538.3840949	539.8944285	538.3893560	0.74	297.81	8015.	539.14233	103534.
	174.	539.9009002	541.4114897	539.9065486	0.91	297.50	8010.	540.65894	103536.
59	175.	541.4179829	542.9287297	541.4239000	0.71	297.65	8005.	542.17554	103535.
	176.	542.9351360	544.4461317	542.9414274	0.88	297.35	8002.	543.69360	103532.
	177.	544.4525665	545.9636210	544.4590873	0.59	297.60	8005.	545.21094	103523.
60	178.	545.9699969	547.4804562	545.9768351	0.65	297.45	8016.	546.72827	103462.
	179.	547.4868023	548.9975287	547.4938797	0.49	297.57	8073.	548.24512	103465.
	180.	549.0038853	550.5147722	549.0112062	0.25	297.78	8065.	549.76245	103468.
61	181.	550.5210391	552.0321760	550.5286760	0.32	297.61	8058.	551.27979	103468.
	182.	552.0384026	553.5496914	552.0463050	0.21	297.67	8056.	552.79712	103463.
	183.	553.5558307	555.0672402	553.5640430	0.26	297.53	8061.	554.31250	103474.
62	184.	555.0733331	556.5847632	555.0817832	0.14	297.61	8076.	555.83179	103462.
	185.	556.5908303	558.1021277	556.5995122	-0.08	297.79	8094.	557.34912	103448.
	186.	558.1081248	559.6192776	558.1170616	-0.13	297.76	8113.	558.86646	103436.
63	187.	559.6251364	561.1362752	559.6344055	0.09	297.42	8128.	560.38379	103429.
	188.	561.1421525	562.6532608	561.1515734	-0.35	297.85	8135.	561.90063	103428.
	189.	562.6590245	564.1703040	562.6687374	-0.24	297.64	8131.	563.41724	103422.
64	190.	564.1759720	565.6880841	564.1859405	-0.27	297.58	8115.	564.93457	103417.
	191.	565.6936774	567.2060632	565.7038823	-0.37	297.61	8116.	566.45190	103401.
	192.	567.2115943	568.7238933	567.2220281	-0.54	297.72	8136.	567.96997	103377.
65	193.	568.7293031	570.2413853	568.7400055	-0.51	297.61	8170.	569.48804	103369.
	194.	570.2467335	571.7586266	570.2576489	-0.72	297.78	8204.	571.00537	103351.
66	195.	571.7638163	573.2757524	571.7750169	-0.57	297.52	8224.	572.52271	103340.

16 cont.	196.	573.2809001	574.7928979	573.2922726	-0.84	297.76	8233.	574.03955	103335.
	197.	574.7979144	576.3101240	574.809 24	-0.1	297.65	8234.	575.55688	103333.
	198.	576.3150665	577.8274936	576.3266560	-0.96	297.74	8232.	577.07349	103305.
67	199.	577.8323582	579.3450114	577.8443242	-1.18	297.87	8229.	578.59082	103300.
	200.	579.3497194	580.8626307	579.3619213	-1.08	297.68	8232.	580.10815	103291.
	201.	580.8672192	582.3802926	580.8796309	-1.15	297.68	8241.	581.62622	103277.
68	202.	582.3847893	583.8979356	582.3973614	-1.34	297.83	8257.	583.14355	103270.
	203.	583.9022892	585.4153483	583.9150857	-1.37	297.81	8285.	584.66089	103252.
	204.	585.4195809	586.9325356	585.4325517	-1.51	297.89	8310.	586.17847	103236.
69	205.	586.9365942	588.4495682	586.9497970	-1.46	297.75	8331.	587.69580	103225.
	206.	588.4534700	589.9666005	588.4668548	-1.48	297.70	8341.	589.21240	103219.
	207.	589.9704140	591.4837458	589.9839085	-1.72	297.89	8340.	590.72900	103215.
	208.	591.4873581	593.0015169	591.5010594	-1.58	297.68	8333.	592.24634	103196.
	209.	593.0049973	594.5194948	593.0188178	-1.72	297.76	8338.	593.76367	103178.
	210.	594.5227748	0.	594.5367922	-1.69	297.64	8360.	595.28174	103150.

CARD TOTAL

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1969 224400000066 230000000105 224400000033 230000000054 224400000065 224400000105 224400000062 203700000000
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FILE 0001 REC 0015 CH 2760

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2445	205400000000	205700000000	204700000000	205440000000	206440000000	205620000000	206560000000	207460000000
2497	206560000000	206440000000	206560000000	204740000000	205440000000	204700000000	206560000000	206440000000
2545	205440000000	205640000000	205440000000	204740000000	000000000000	000000000000	000000000000	000000000000
2593	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2641	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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FILE 0001 REC 0016 CH 2760

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0289	000000000000	205400000000	220555620000	210542000000	210600156263	603514476250	204640000000	216765340000
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0625	166012047466	166021012105	162012007432	162012012045	162012012056	162012041121	162012012061	171412012032
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FILE 0001 REC 0017 CF 2760

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0721	114400000106	102000000106	114400000034	114400000064	000000000075	114400000040	114400000056	114400000032
0769	127400000026	127400000034	127400000130	127400000103	134000000136	127400000113	127400000124	127400000056
0817	127400000107	127400000106	127400000034	134000000063	134000000075	127400000040	127400000055	127400000032
0865	127400000026	127400000034	127400000144	127400000144	127400000143	127400000117	127400000117	114400000056
0913	000000000106	102000000106	000000000034	107000000064	122000000075	122000000040	127400000056	127400000032
0961	145400000026	145400000034	134000000130	127400000103	134000000137	127400000113	114400000112	107000000057

0001 000124000001 602145214301 000000200711 000710000001 212444400000 177671113653 156763277577 602431602154
0049 164747637065 546633721774 600445453677 563651521523 147662024717 216501366712 201441536213 163572276406
0097 203601441140 165414276763 546611364636 202402705576 16542662172 546431644344 216453024243 602612307351
0145 165461225101 202505202175 165740132436 552533661371 203615733152 165400344061 547463272222 176544200734
0193 564516454365 150715057427 176542324536 564511142601 150667747475 575407720664 164762651745 546526657372
0241 200767102002 162563202030 550636733460 201400000000 200000000000 000000000000 000000000000 000000000000
0289 000000000000 205400000000 221670410000 207474000000 210422446356 205406661061 204640000000 216421300000
0337 210630000000 221471422000 214622400000 000000000000 000000000000 000000000000 000000000000 000000000000
0385 206660000000 000000000000 210740000000 000000000000 000000000000 000000000000 000000000000 000000000000
0433 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 224502210200 000000000000
0481 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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0577 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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0673 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
0721 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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0913 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
0961 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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1057 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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1537 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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1681 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
1729 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
1777 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
1825 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
1873 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 15200000067
1921 127400000030 000000000037 122000000143 102000000144 102000000143 102000000143 114400000031 102000000045
1969 102000000143 114400000067 102000000035 102000000077 102000000066 102000000050 102000000052 000000000000
2017 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2065 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2113 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2161 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2209 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2257 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2305 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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2401 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2449 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
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2593 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2641 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2689 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
2737 000000000000 224502210200 224435665600 215556600000

0001 000124000002 602145214301 200711200711 000710000001 212444400000 177672077152 156763277577 602422164165
0049 164733247737 546735064207 600462002634 563562303656 147606307435 216512565655 201455704061 163465467414
0097 203605556145 165406104061 546737354162 202415736533 165535347534 546540120573 216422725133 602570171666

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014E	165613456741	202522676674	165607725176	552505651227	571417000240	164756174355	547463360431	176430061266
0193	564417431402	150617472257	176427145352	564415046641	150607271274	571410024740	164751650712	547436712226
0241	200773112C64	161457706517	550461571556	201400000000	000000000000	000000000000	000000000000	000000000000
0285	000000000000	205400000000	221670412000	207574000000	210422246356	205406661061	204640000000	216421300000
0337	210630000000	221471422000	214622400000	000000000000	000000000000	564722740000	205576000000	200617534060
038E	206655000000	200544254401	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	224502210400	145400000067
0481	1660000000C30	166000000037	162000000144	166000000145	166000000144	162000000143	152000000143	162000000045
0529	1560000000143	162000000067	162000000034	152000000077	162000000066	166000000050	156000000052	145400000067
0577	0670000000C30	067000000037	074400000144	062000000144	074400000144	062000000143	067000000136	074400000045
062E	0620000000143	067000000067	067000000035	074400000077	062000000066	074400000050	067000000050	074400000067
0673	1520000000C30	152000000037	162000000143	152000000145	152000000144	156000000143	152000000131	152000000045
0721	1560000000143	152000000067	156000000035	152000000077	152000000066	152000000050	152000000052	134000000067
0769	1560000000C31	162000000036	152000000143	156000000144	162000000145	152000000143	156000000123	152000000045
0817	152000000143	156000000067	152000000035	156000000077	152000000066	152000000047	152000000052	134000000067
086E	1560000000C30	152000000037	156000000143	152000000144	152000000145	156000000143	145400000117	162000000044
0913	1520000000143	152000000067	152000000035	152000000077	156000000066	152000000050	152000000052	127400000067
0961	1020000000C30	074400000037	074400000145	074400000143	062000000144	074400000143	074400000112	062000000045
1009	1020000000143	074400000067	074400000035	074400000077	102000000066	102000000050	102000000052	102000000067
1057	1020000000C30	000000000037	127400000143	122000000144	127400000143	127400000143	127400000105	127400000044
110E	1274000000144	134000000067	145400000035	134000000077	134000000066	127400000051	134000000052	122000000067
1153	0744000000C30	062000000037	062000000143	062000000144	062000000144	062000000143	050000000101	062000000044
1201	0620000000143	050000000067	062000000034	055000000077	062000000066	062000000050	062000000052	067000000067
1249	0620000000C30	062000000037	000000000143	062000000143	062000000144	050000000143	062000000072	062000000045
1297	0670000000143	062000000067	050000000035	074400000076	062000000066	062000000050	062000000052	050000000067
134E	0670000000C30	062000000037	062000000143	067000000145	062000000143	062000000143	050000000066	062000000044
1393	0620000000144	062000000067	050000000035	050000000077	074400000065	062000000050	062000000052	062000000067
1441	0620000000C31	074400000037	062000000144	067000000143	067000000145	062000000143	067000000061	062000000044
1489	0620000000143	062000000067	062000000035	062000000076	062000000066	074400000050	050000000052	166000000067
1537	2114000000C30	221000000037	221000000143	205400000144	211400000145	221000000143	211400000055	221000000043
158E	2210000000144	215400000067	211400000035	215400000077	211400000066	215400000050	211400000052	211400000067
1633	2300000000C30	224400000037	221000000144	230000000145	230000000145	224400000143	224400000050	221000000044
1681	2300000000143	221000000067	221000000035	221000000077	230000000066	230000000047	230000000052	224400000067
172E	2300000000C30	230000000035	237400000140	243400000131	243400000143	243400000131	247400000041	247400000061
1777	2474000000132	253000000064	253000000034	247400000076	253000000064	253000000046	253000000047	247400000063
182E	2530000000C26	253000000034	257000000127	253000000070	247400000134	257000000101	247400000034	257000000056
1873	2530000000113	247400000077	253000000032	247400000076	257000000064	253000000046	247400000046	205400000050
1921	1520000000C26	145400000034	145400000121	145400000063	145400000132	141000000076	141000000027	134000000056
1969	1410000000113	134000000077	134000000034	145400000075	134000000065	134000000046	134000000046	000000000000
2017	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
206E	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2113	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2161	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2209	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2257	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
230E	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2353	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2401	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2449	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2497	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
254E	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2593	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2641	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2689	0000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2737	0000000000000	224502210400	224435665600	215556600000				

0001	000124000003	602145214301	200711200711	000710000001	212444400000	177673062426	156762610421	602412724052
0049	164714056457	546764356327	600474626250	563500255747	147554721131	216524247623	201467626213	162761452014
0097	203611601475	164775066213	546766667120	202430620311	165530366010	546753723442	215770237436	602537361341
014E	165640047661	202535643510	165464137676	552463356556	174702051344	164734537146	547462513636	175665046163
0193	563674716223	150616510420	175664155144	563672173044	150611306010	174677543000	174677543000	547501112116
0241	200774205340	554603554426	550416226006	201400000000	000000000000	000000000000	000000000000	000000000000

FILE 0001 REC 0014 CF 2760

1873	247400000111	253000000105	247400000032	247400000111	247400000051	253000000066	253000000045	175400000030
1921	156000000025	156000000033	156000000143	152000000142	152000000143	152000000142	152000000026	155000000056
1965	152000000111	152000000105	152000000033	152000000111	152000000051	152000000066	152000000045	000000000000
2017	213740000000	206700000000	207440000000	207600000000	210520000000	210540000000	210576000000	210616000000
2065	210720000000	211430000000	211477000000	211503000000	211520000000	211547000000	211620000000	211630000000
2113	211650000000	211660000000	211670000000	211720000000	211750000000	211750000000	211763000000	212404000000
2161	212410000000	212430000000	212434000000	212443400000	212454000000	212467400000	212500000000	212507400000
2205	212516400000	212523400000	212527400000	212542400000	212560000000	212564000000	212603400000	212616000000
2257	212625000000	212644000000	212656000000	212674000000	213675600000	213715600000	213720000000	213722000000
2305	213733600000	212720400000	205400000000	204740000000	205440000000	205440000000	205440000000	205440000000
2353	207530000000	204700000000	205440000000	204700000000	206560000000	204700000000	207514000000	205440000000
2401	205440000000	207470000000	205420000000	205440000000	204640000000	207540000000	204740000000	207440000000
2449	207470000000	204740000000	205700000000	205420000000	205600000000	205700000000	206570000000	205420000000
2497	204740000000	205440000000	207540000000	207534000000	207410000000	204700000000	204740000000	207404000000
2545	204640000000	205400000000	207524000000	207454000000	000000000000	000000000000	000000000000	000000000000
2593	204700000000	204700000000	206650000000	206770000000	000000000000	000000000000	000000000000	000000000000
2641	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2685	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2737	000000000000	224502327200	224437230600	215503300000				

FILE 0001 REC 0015 CF 2760

0001	000124000441	602145214301	200711200711	000710000001	212446000000	177630303364	156767417036	201475100151
0049	161536251767	144550034031	200500032567	160677756457	140477641501	217621604214	601474757065	560535754525
0097	202603777162	162565151361	144620020201	203505042072	564603343656	544436413764	212464732207	175616104467
0145	160427624204	202514365217	163773334121	145655560322	203617241566	162534006111	000000000000	176427233452
0193	561732441260	000000000000	176426340512	561726117227	536721026177	574543757775	162527001050	140720630327
0241	200772604672	157573747331	543547461126	201400000000	000000000000	000000000000	000000000000	204440000000
0285	000000000000	205400000000	221677336000	210470000000	210427751040	204762504206	204640000000	217411370000
0337	210632000000	221471422000	214622700000	000000000000	000000000000	163626200000	205520000000	000000000000
0385	206510400000	176757573654	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	224502327400	201400000031
0481	211400000025	215400000033	205400000143	211400000143	211400000143	221000000143	215400000141	215400000057
0525	211400000111	211400000105	211400000032	205400000111	211400000051	205400000067	221000000044	171400000031
0577	134000000025	141000000033	141000000143	134000000143	141000000144	141000000143	141000000134	141000000056
0625	134000000111	141000000105	141000000032	141000000111	134000000051	141000000066	134000000045	145400000031
0673	166000000025	166000000033	162000000143	162000000143	162000000144	166000000143	162000000127	166000000057
0721	166000000110	162000000105	162000000032	162000000111	166000000051	162000000067	162000000045	156000000031
0765	166000000025	166000000033	166000000143	166000000143	166000000144	166000000143	162000000122	166000000056
0817	166000000110	166000000105	166000000032	166000000111	166000000051	162000000066	166000000045	156000000031
0865	162000000025	166000000033	166000000143	166000000143	166000000144	166000000143	166000000115	162000000056
0913	162000000110	162000000105	162000000032	166000000111	166000000051	162000000066	166000000045	156000000031
0961	171400000025	171400000033	166000000143	166000000143	171400000144	171400000143	166000000111	171400000057
1005	171400000107	171400000104	171400000032	171400000111	171400000051	171400000067	171400000045	166000000031
1057	201400000025	201400000033	201400000143	201400000143	201400000144	201400000142	201400000103	201400000056
1105	201400000106	201400000105	201400000032	175400000111	201400000051	201400000066	201400000045	162000000031
1153	141000000025	134000000033	141000000143	134000000143	134000000144	141000000142	134000000076	141000000057
1201	134000000105	134000000105	134000000032	134000000111	134000000051	134000000066	134000000045	134000000031
1249	134000000025	134000000033	141000000143	141000000143	134000000143	141000000143	141000000071	141000000056
1297	141000000105	134000000104	141000000032	134000000111	134000000051	141000000067	141000000045	134000000031
1345	141000000025	145400000033	134000000143	134000000143	141000000144	134000000143	134000000064	134000000056
1393	141000000105	134000000105	134000000032	134000000111	141000000051	141000000067	134000000045	141000000031
1441	145400000025	134000000033	145400000143	134000000143	141000000144	141000000143	141000000057	141000000057
1485	141000000104	134000000105	134000000032	134000000111	141000000051	141000000066	141000000045	162000000031
1537	211400000025	211400000033	211400000143	211400000143	211400000144	211400000143	211400000052	211400000056
1585	211400000103	211400000105	211400000032	205400000111	211400000052	211400000066	211400000044	221000000031
1633	230000000025	230000000034	230000000143	230000000143	234000000144	224400000143	224400000045	224400000056
1681	224400000101	230000000105	224400000032	230000000111	224400000051	224400000066	224400000045	230000000031
1725	234000000025	234000000033	234000000143	234000000144	234000000144	234000000144	234000000040	234000000056
1777	230000000101	234000000105	237400000032	234000000111	234000000051	230000000067	230000000045	234000000031
1825	243400000025	243400000033	243400000143	237400000144	237400000145	237400000143	243400000033	243400000056
1873	243400000077	243400000105	243400000032	243400000111	243400000051	243400000066	237400000045	201400000031
1921	156000000025	152000000033	152000000143	152000000144	152000000144	152000000143	145400000026	152000000056
1965	152000000075	145400000105	152000000033	152000000111	152000000051	152000000066	145400000045	204440000000

FILE 0001 REC 0015 CF 2760

2017	213725400000	213730200000	213734200000	213740200000	213744200000	213750200000	213754200000	213760200000
2065	213764200000	211430000000	211477000000	211503000000	211520000000	211547000000	211620000000	211630000000
2113	211650000000	211660000000	211670000000	211720000000	211740000000	211750000000	211763000000	212404000000
2161	212410000000	212430000000	212434000000	212443400000	212454000000	212467400000	212500000000	212507400000
2205	212516400000	212523400000	212527400000	212542400000	212560000000	212564000000	212603400000	212616000000
2257	212625000000	212644000000	212656000000	212674000000	213675600000	213715600000	213720000000	213722000000
2305	213733600000	212720400000	206400000000	206400000000	206420000000	206420000000	206460000000	206460000000
2353	206450000000	206450000000	204740000000	204700000000	206560000000	204700000000	207514000000	205440000000
2401	205440000000	207470000000	205420000000	205440000000	204640000000	207540000000	204740000000	207440000000
2449	207470000000	204740000000	205700000000	205420000000	205600000000	205700000000	206570000000	205420000000
2497	204740000000	205440000000	207540000000	207534000000	207410000000	204740000000	204740000000	207404000000
2545	204640000000	205400000000	207524000000	207454000000	204700000000	205420000000	204700000000	205400000000
2593	204700000000	204700000000	206650000000	206770000000	000000000000	000000000000	000000000000	000000000000
2641	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2689	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2737	000000000000	224502327400	224437230600	215503300000				

FILE 0001 REC 0016 CF 2760

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0001	000124000442	602145214301	200711200711	000710000001	212446000000	177631273006	156767357737	201476423015
0049	161564073310	144601014223	200501635311	160701745300	140500672377	217614627372	601476421727	560535132007
0097	202605367164	162577314631	144620020201	203502024245	564604711564	54565413576	212501420703	175630674530
0145	161427564632	202520403346	164401367635	145655621756	203617765147	162524656050	144764127331	176410362341
0193	561732404264	125414336750	176407572254	561726437371	536654257610	574420155443	162520636243	145404062563
0241	200773347611	157517442641	543512335344	201400000000	000000000000	000000000000	000000000000	000000000000
0289	000000000000	205400000000	221677340000	210530000000	210427751040	204762504206	204640000000	217411370000
0337	210632000000	221471422000	214622700000	000000000000	000000000000	564436000000	205524000000	177673317273
0385	206510400000	176757573654	201400000000	000000000000	000000000000	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	224502327600	215400000031
0481	211400000025	205400000033	211400000143	205400000144	221000000144	211400000142	211400000141	211400000057
0529	221000000073	221000000105	205400000032	211400000111	221000000051	205400000067	211400000045	171400000031
0577	141000000025	134000000033	134000000143	134000000144	134000000144	134000000143	134000000135	141000000056
0625	141000000072	134000000105	141000000032	134000000110	134000000051	134000000067	141000000045	145400000031
0673	162000000025	171400000033	166000000143	162000000144	171400000144	166000000143	166000000127	166000000056
0721	166000000071	166000000106	166000000033	171400000111	166000000051	166000000067	166000000045	156000000031
0769	171400000026	171400000033	171400000144	171400000143	171400000144	171400000143	171400000123	171400000056
0817	171400000073	166000000105	171400000032	166000000111	171400000051	171400000067	171400000045	162000000031
0865	171400000026	171400000033	171400000143	171400000143	171400000144	171400000143	171400000115	171400000057
0913	171400000074	171400000106	171400000032	171400000111	171400000051	171400000066	166000000045	162000000031
0961	171400000025	171400000033	171400000143	000000000143	166000000144	171400000143	171400000111	171400000056
1009	166000000073	166000000105	171400000032	166000000111	171400000052	171400000066	166000000045	171400000031
1057	201400000025	201400000034	201400000143	201400000143	201400000144	201400000143	201400000103	201400000056
1105	205400000074	201400000105	201400000032	201400000111	205400000051	175400000066	201400000045	162000000031
1153	145400000025	141000000033	134000000143	141000000144	141000000144	134000000143	141000000076	134000000056
1201	141000000073	141000000105	134000000032	141000000111	141000000051	134000000066	134000000045	134000000031
1249	141000000026	141000000033	141000000144	141000000143	141000000144	141000000143	141000000071	141000000057
1297	141000000073	141000000105	145400000032	141000000000	145400000051	141000000067	141000000045	141000000032
1345	141000000025	141000000033	141000000143	141000000143	141000000143	141000000142	145400000064	141000000056
1393	141000000072	141000000105	145400000033	141000000111	145400000051	141000000067	141000000044	141000000031
1441	141000000025	141000000033	145400000144	141000000143	145400000143	141000000141	145400000060	141000000056
1489	141000000072	152000000105	145400000032	141000000110	141000000051	141000000067	145400000044	171400000031
1537	211400000025	221000000033	221000000143	221000000143	221000000143	215400000142	221000000052	215400000056
1585	215400000073	221000000105	215400000032	221000000111	215400000051	215400000065	215400000044	234000000031
1633	243400000026	243400000033	237400000143	237400000143	243400000143	243400000141	243400000045	243400000056
1681	243400000072	237400000105	237400000032	237400000111	243400000051	237400000067	237400000045	247400000031
1729	253000000025	253000000033	253000000143	257000000143	257000000143	257000000142	253000000040	257000000056
1777	253000000072	257000000105	253000000032	253000000111	257000000051	257000000067	257000000044	263000000031
1825	272400000025	266400000033	272400000143	266400000143	266400000143	266400000142	272400000033	272400000056
1873	272400000073	266400000105	272400000032	272400000111	272400000051	272400000066	272400000044	205400000031
1921	166000000025	162000000033	156000000143	156000000143	156000000144	156000000142	152000000026	156000000056
1969	156000000073	152000000105	152000000033	156000000111	152000000051	152000000067	152000000045	000000000000
2017	213725400000	213730200000	213734200000	213740200000	213744200000	213750200000	213754200000	213760200000
2065	213764200000	211430000000	211477000000	211503000000	211520000000	211547000000	211620000000	211630000000
2113	211650000000	211660000000	211670000000	211720000000	211740000000	211750000000	211763000000	212404000000

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2161	212410000000	212430000000	212434000000	212443400000	212454000000	212467400000	212500000000	212507400000
2209	212516400000	212523400000	212527400000	212542400000	212560000000	212564000000	212603400000	212616000000
2257	212625000000	212644000000	212656000000	212674000000	213675600000	213715600000	213720000000	213722000000
2308	213733600000	212720400000	206400000000	206400000000	206420000000	206420000000	206460000000	206460000000
2353	206450000000	206450000000	204740000000	204700000000	206560000000	204700000000	207514000000	205440000000
2401	205440000000	207470000000	205420000000	205440000000	204640000000	207540000000	204740000000	207440000000
2449	207470000000	204740000000	205700000000	205420000000	205600000000	205700000000	206570000000	205420000000
2497	204740000000	205440000000	207540000000	207534000000	207410000000	204700000000	204740000000	207404000000
2545	204640000000	205400000000	207524000000	207454000000	204700000000	205420000000	204700000000	205400000000
2593	204700000000	204700000000	206650000000	206770000000	000000000000	000000000000	000000000000	000000000000
2641	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2689	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
2737	000000000000	224502327600	224437230600	215503300000				

FILE 0001 REC 0017 CH 0018

0001	000124000443	602145214301	200711000000
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