



DOCUMENTATION GROUP

STANDARD 503-82

**STANDARD FOR DATA LABELS
AND
DATA ANNOTATION PROCEDURES**

**WHITE SANDS MISSILE RANGE
KWAJALEIN MISSILE RANGE
YUMA PROVING GROUND
DUGWAY PROVING GROUND
COMBAT SYSTEMS TEST ACTIVITY**

**ATLANTIC FLEET WEAPONS TRAINING FACILITY
NAVAL AIR WARFARE CENTER WEAPONS DIVISION
NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION
NAVAL UNDERSEA WARFARE CENTER DIVISION, NEWPORT
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STANDARD FOR DATA LABELS
AND
DATA ANNOTATION PROCEDURES

DOCUMENTATION GROUP
RANGE COMMANDERS COUNCIL

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FOREWORD

The data label standards and annotation procedures contained herein were approved at the 37th Meeting of the Documentation Group (DG) of the Range Commanders Council (RCC). They are intended as a common reference for the labeling and annotation of data between users and ranges and between ranges.

The DG recognizes that it may take some time for these labels and procedures to be accepted and that there will continue to be minor variances between ranges. It is hoped, however, that the universal acceptance of these labels and procedures will help to standardize and improve range interactions.

This is the first edition of this document. Recommendations for improvement are solicited. Please address your comments or questions to:

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STANDARD FOR DATA LABELS
AND
DATA ANNOTATION PROCEDURES

1.0 INTRODUCTION

Test operations conducted by the various members and associate members of the Range Commanders Council (RCC) generate many data products for delivery to range users or for exchange between participating ranges. This procedure establishes a standard for technical annotation of selected data (items) produced by these ranges.

2.0 BACKGROUND

The RCC Documentation Group (DG) was tasked to develop a standard for data labels and data annotation procedures by the RCC Executive Committee. To assure the maximum utility of the final labels, all members of the RCC were requested to provide their inputs regarding information required and label configurations. The labels presented in this document represent a compilation of the inputs received after a collective screening by the members of the DG. The label formats and annotations are considered the minimum information required for data products exchanged between ranges or between a range and its range users. This does not preclude additional peculiar identification requirements of individual ranges.

3.0 OBJECTIVES

The objectives of this document are to develop data labels and annotation procedures to provide a minimum standard for data identification. A secondary objective is to develop instructions to build uniformity into the required annotations.

4.0 EXPLANATION OF TERMS

4.1 Data Item - RCC Document 502-81, Glossary of Range Terminology, defines a data item as a unit of information.

4.2 Data Product(s) - Any item generated by an official operation by a member range and required for delivery to a range user or member range by official documentation. A data product(s) is classified into the following categories:

4.2.1 Analog Telemetry Tape - Magnetic tape which contains telemetered information in the form of a varying frequency or voltage received from a sensor. It includes positional and velocity data recorded in digital format on magnetic tape from a tracking sensor.

4.2.2 Data Labels - Any stamped, preprinted, or attachable label used to annotate a data product with identifying technical information.

4.2.3 Formatted Telemetry Tape - Magnetic tape which contains formatted telemetered information received from a sensor. The data is in a digital format consisting of a series of discrete frequencies (pre- and postdetection) on a series of discrete voltage levels (digitized binary video).

4.2.4 General Purpose - This includes those data products not included in one of those categories listed. It can also include data products included here which are not readily identified in their normal stored or shipping condition (i.e., placed in a box or container, rolled with identification on inner surface, report format, etc.).

4.2.5 Metric Magnetic Tape - Magnetic tape containing positional data and their derivatives recorded in digital format from a tracking sensor.

4.2.6 Oscillogram - A continuous trace fluctuating between specific limits displayed on a recording media.

4.2.7 Raw Data - Data produced by operational activities in which no processing outside of the normal handling and control activity is involved.

4.2.8 Reproduced Data - Copies or dubs which are made from original material. "Copies" refers to paper duplications made of original materials, regardless of how the copies are produced. These copies are usually made by a Xerox process, but can include offset printing. "Dubs" refers to magnetic tape duplications of original materials.

5.0 STANDARD DATA LABELS

Appendixes A through E contain the identification of selected labels and detailed annotation procedures. These labels represent the minimum number required to cover the most commonly used data products. A pictorial representation of each is included. Specific dimensions of each label have not been identified and will be dependent upon the data products used at the individual ranges.

5.1 Metric Magnetic Tape (appendix A) - This label is to be used for all metric magnetic tape recordings.

5.2 Telemetry Data Recordings (appendix B) - These data labels include telemetry magnetic tape, in two parts, and oscillogram/pen recorders. The two-part labeling for telemetry magnetic tape was considered to be the most effective method of retaining all pertinent data. The oscillogram/pen recorder label is dual purpose due to the commonality of required information.

5.3 Photographic Data (appendix C) - These labels are for initial film exposed by either tracking or documentary cameras and any subsequent copy, negative, or print produced from the initial film. Also included is a label for the film can.

5.4 General Purpose (appendix D) - This label is used for data products for which a specific label has not been developed.

5.5 Special Purpose (appendix E) - These labels identify special conditions of recording mediums.

6.0 SECURITY CLASSIFICATION

The labels identified in the appendixes provide for the inclusion of the overall classification only. Any additional marking requirements prescribed by DOD regulations governing all forms of classified material must be adhered to.

Appendix A

METRIC MAGNETIC TAPE LABELING INSTRUCTIONS

CLASSIFICATION _____

VEH OBJ TEST FACILITY DATA ITEM NO.

METRIC MAGNETIC TAPE

TITLE: _____

OD NO. _____ OP NO. _____ REEL _____ OF _____ COPY _____ OF _____

DATE (UTC) _____ ACQ SITE _____ DENSITY _____ bpi Cr

TIME (UTC) FROM _____ TO _____ TAPE SPEED _____

TRACK _____ BCD/BN _____ REWOUND _____

REMARKS _____

METRIC MAGNETIC TAPE LABELING INSTRUCTIONS

- CLASSIFICATION Enter classification of the highest classification of data and the governing documents.
- VEH/OBJ Enter identifier of vehicle or object tracked.
- TEST FACILITY Enter test facility or organization.
- DATA ITEM NO. Enter data item number assigned by the Operations Directive test document; e.g., 904.00, 908.00E, etc.
- TITLE Enter descriptive title provided in Operations Directive; e.g., 1218 comp. dgtl. mag tape 4101, etc.
- OD NO. Enter Operations Directive (OD) number.
- OP NO. Enter local operations number.
- REEL Enter sequence of metric magnetic tapes produced; e.g., 1 of 2, 2 of 2, etc. Same sequence as used by operator in log.
- COPY Enter copy number vs total copies made; e.g., 1 of 10, 5 of 10, etc.
- DATE (UTC) Enter Universal Time Coordinated (UTC) date corresponding to first recorded vehicle data on tape; e.g., 12 Jan 81.

ACQ SITE Enter site identifier code of recording site; e.g.,
 radar 0.14, etc.

DENSITY Enter number of bits per inch (BPI) recorded.

CPW Indicate three or four characters per word (CPW).

TIME (UTC) Enter the UTC time from first record to last
 record, in hours and minutes; e.g., 1632 to
 1635, etc.

TAPE SPEED Enter tape speed at time of recording.

TRACK Indicate tape track number(s).

BCD/BN Indicate whether data tape was written in binary
 coded decimal (BCD) format or a binary format (BN).

REWOUND Enter X if data tape has been rewound.

REMARKS Enter additional remarks necessary to properly
 interpret the data.

Appendix B

TELEMETRY DATA RECORDING LABELING INSTRUCTIONS

CLASSIFICATION _____

ORIG
DUB
REWOUND

TEST FACILITY

DATA ITEM NO. _____

TELEMETRY MAGNETIC TAPE LABEL

NO. _____ OD NO. _____ REEL _____ OF _____ COPY _____ OF _____

DATE (UTC) _____ TIME SPAN (UTC) FROM _____ TO _____

ACQ SITE _____ RCDR NO. _____ TAPE SP _____

REMARKS: _____

TELEMETRY MAGNETIC TAPE LABEL INSTRUCTIONS

- | | |
|---------------------|--|
| CLASSIFICATION | Enter classification of the highest classification of data and the governing documents. |
| TEST FACILITY | Enter test facility or organization. |
| ORIG/DUB | Check whether the tape is an original or a dub. |
| REWOUND | Check if the tape has been rewound. |
| DATA ITEM NO. | Enter the full data item number as specified in the requirements document. |
| OP NO. | Enter the local operations number. |
| OD NO. | Enter the number of the Operations Directive (OD) under which the operation was scheduled. |
| REEL _____ OF _____ | Enter tape sequence number (1 of 1), (1 of 2), (2 of 2), etc. |
| COPY _____ OF _____ | Enter the copy sequence number. |
| DATE (UTC) | Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g., 12 Jan 81. |

TIME SPAN (UTC)

Enter the UTC start and stop times of the tape recorder in units of hours, minutes and seconds.

ACQ SITE

Enter the site code, station name or sensor ID of the element producing the original telemetry tape.

RCDR NO.

Enter the serial number or local ID number of the recorder used at the acquisition site identified above.

TAPE SP

Enter the tape speed in inches per second (IPS) at which the original tape was recorded.

REMARKS

Enter those remarks needed to properly interpret the data.

TELEMETRY MAGNETIC TAPE DATA LABEL

CLASSIFICATION _____

ORIG <input type="checkbox"/>	(TEST FACILITY)	DATA ITEM NO. _____
DUB <input type="checkbox"/>		OP NO. _____
REWOUND <input type="checkbox"/>		
REEL _____ OF _____	COPY _____ OF _____	
OD NO. _____	FMT _____	TAPE SPEED _____ ips
ACQ SITE NO. _____	ACQ RCDR (TYPE) _____	RCDR NO. _____
DATE (UTC) _____	TIME SPAN (UTC) _____	TO _____
TIME CODE GEN _____	TIME DELAY _____	
CALIB. START _____	STOP _____	STEPS _____
AIRCRAFT NO. _____		

TAPE TRACK ASSIGNMENTS

TRK	TECHNIQUE			CONTENTS GENERAL	RECVR CONFIG.		
	POST-D		PRE		RX OR	IF BW	VIDEO
	DIR	FM	D	CB NO.	BW		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

MIXER ASSIGNMENTS

MXR CHAN FREQ KHZ	MIXER 1	MIXER 2	MIXER 3
3.0 KHZ			
3.9 KHZ			
5.4 KHZ			
7.35 KHZ			
10.5 KHZ			
14.5 KHZ			
22.0 KHZ			
30.0 KHZ			
40.0 KHZ			
52.5 KHZ			
70.5 KHZ			
DIRECT			
DIRECT			

RF LINKS

RF	AOS	LOS	RF	AOS	LOS
RF	AOS	LOS	RF	AOS	LOS
REMARKS _____					

TELEMETRY MAGNETIC TAPE DATA LABEL INSTRUCTIONS

CLASSIFICATION Enter classification of the highest classification of data and the governing document.

TEST FACILITY Enter test facility or organization.

ORIG/DUB Check whether the tape is the original or a dub.

REWOUND Check if the tape has been rewound.

DATA ITEM NO. Enter the full data item number as specified in the requirements document.

OP NO. Enter the local operations number.

REEL ___ OF ___ Enter the reel sequence number; e.g., 1 of 1, 1 of 2, 2 of 2, etc.

COPY ___ OF ___ Enter the copy sequence number.

OD NO. Enter the number of the Operations Directive (OD) under which the operation was scheduled.

FMT Enter the format number specified in the applicable requirement document.

TAPE SPEED ___ IPS Enter the tape speed in inches per second (IPS).

ACQ SITE NO. Enter the site code or station name of the recording site.

ACQ RCDR (TYPE) Enter the manufacturer and model ID of the recorder used to record the original data.

RCDR NO. Enter the serial number or local ID number of the recorder used to record the original data.

DATE (UTC) Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g., 12 Jan 81.

TIME SPAN (UTC) ___ TO ___ Enter the start and stop times (UTC) of the tape recorder in units of hours, minutes and seconds.

TIME CODE GEN Enter the ID number of the time code generator being used.

TIME DELAY Enter the time delay in milliseconds and indicate path involved.

CALIB START ___ STOP ___
STEPS ___ Enter the UTC time of calibration start and stop and the steps in dB and times.

AIRCRAFT NO. For those operations involving aircraft, enter the aircraft number.

TAPE TRACK ASSIGNMENTS Indicate type of recording used; Post-D direct or FM and/or Pre-D. Identify the source of the track, the frequency, the antenna and the receiver. Define the receiver configuration by receiver number or combiner number, IF bandwidth and video bandwidth.

MIXER ASSIGNMENTS Enter the percent deviation (7.5 or 15) and the contents of the data or the specified Voltage Controlled Oscillator (VCO) channel.

RF LINKS Enter the rf and the UTC time of acquisition of signal (AOS) and loss of signal (LOS).

REMARKS Enter additional remarks necessary to properly interpret the data.

OSCILLOGRAM/STRIP CHART RECORDER LABEL INSTRUCTIONS

CLASSIFICATION Enter classification of the highest classification of data and the governing document.

TEST FACILITY Enter test facility or organization.

SITE Enter the site code, station name or sensor ID of the element producing the original oscillogram/strip chart.

DATA ITEM NO. Enter the full data item number as specified in the requirements document.

OP NO. Enter the local operations number.

OD NO. Enter the number of the Operations Directive (OD) under which the applicable operation was scheduled.

RCDR Enter the serial number or local ID number of the recorder used to record the original data.

DATE (UTC) Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g., 12 Jan 1981.

TIME (UTC) FROM TO Enter the start and stop times (UTC) of the recorder in units of hours, minutes and seconds.

CHART SPEED Enter the speed in inches per second (IPS) at which the original data was recorded.

IRIG TIME CODE Enter the IRIG time code displayed on the designated track; e.g., H002.

COPY NO. Enter the copy number.

CHART NO. OF Enter the chart sequence number.

TIMING LINE RATE IPS Enter the timing rate of reference lines.

PERM/ D/W Check if this is a permanent or a direct write oscillogram.

R/T P/B Check if this is recorded in real time or in the playback mode.

CALIB PRE/POST/STEPS Check which calibrations were accomplished (pre/post) and enter the steps in dB and times.

PEN/TRACE NO. Enter the pen/trace number vs trace contents as described in the requirements document; e.g., link or frequency, name, subcarrier, channel/segment number, etc.

Appendix C

PHOTOGRAPHIC DATA LABELING INSTRUCTIONS

TEST FACILITY		
DATA ITEM NO.	○	OP/TEST NO.
CLASSIFICATION		DATE
FILM TYPE		FOOTAGE
TITLE		
STATION		

FILM CAN LABELING INSTRUCTIONS

- TEST FACILITY Enter test facility or organization.
- DATA ITEM NO. Enter full data item number assigned by the operations directive document.
- OP/TEST NO. Enter appropriate operations/test number.
- CLASSIFICATION Enter classification that covers the highest classification of the data and the governing document.
- DATE Enter the Universal Time Coordinated (UTC) date corresponding to time of the first recorded data.
- FILM TYPE Enter the manufacturers type or comparable number.
- FOOTAGE Enter footage of film in feet.

TITLE

Enter data item name as specified by the
Operations Directive (OD) document.

STATION

Enter site identifier code of the acquisition site
that gathered the data.

PHOTO-OPTICAL DATA LABEL

TYPE _____ DOC TRACKING
 OP NO. _____ SITE _____
 ITEM NO. _____ DATE _____
 FILM TYPE _____ EMULSION NO. _____
 ASA NO. _____ FILTER _____
 FOOTAGE _____ SIZE _____
 CAMERA TYPE _____ NO. _____
 LENS TYPE _____ F/L _____
 SHUTTER _____ F/STOP _____
 TIME FROM _____ TO _____
 OPERATOR _____
 CLASSIFICATION _____

PHOTO-OPTICAL DATA LABELING INSTRUCTIONS

- TYPE Enter the type of photo-optical data contained. Check documentary or tracking data.
- OP NO. Enter the operations number of which the data was acquired.
- SITE Enter the site identifier code of the acquisition site that gathered the data.
- ITEM NO. Enter the full data item number as specified in the applicable requirements document.
- DATE Enter the Universal Time Coordinated (UTC) date which corresponds to the time of first recorded data.
- FILM TYPE Enter the manufacturer type or comparable number.
- EMULSION NO. Enter the emulsion number of the film used.
- ASA NO. Enter the ASA number of the film used.
- FILTER Enter the type or standard number of filter(s).
- FOOTAGE Enter the footage of film in feet.
- SIZE Enter the size of film used.
- CAMERA TYPE ___ NO. ___ Enter the type/name/number of camera used.
- LENS TYPE ___ F/L ___ Enter the type and focal length of lens used.

SHUTTER

Enter the style of shutter used.

F-STOP

Enter the F-stop setting of the camera/lens.

TIME FROM ___ TO ___

Enter first start time (UTC) of data recorded to the last stop time of recorded data.

OPERATOR

Enter the name and organization of responsible person.

CLASSIFICATION

Enter the classification of the highest classification of data and the governing documents.

PHOTOGRAPHIC FILM LABEL		
CLASSIFICATION _____		
MASTER:	<input type="checkbox"/> COLOR	<input type="checkbox"/> OPTICAL
	<input type="checkbox"/> B&W	<input type="checkbox"/> CONTACT
	POSITION A <input type="checkbox"/> B <input type="checkbox"/>	
B&W	<input type="checkbox"/> ORIGINAL	<input type="checkbox"/> PRINT
COLOR ORIGINAL	<input type="checkbox"/>	WORK PRINT
		POSITION A <input type="checkbox"/> B <input type="checkbox"/>
TEST NO.	DATE	FT
ITEM NO.	PROD NO.	
REF NO.	EDGE NOS.	
OD NO.	SITE	
REMARKS		

PHOTOGRAPHIC FILM LABELING INSTRUCTIONS

CLASSIFICATION

Enter classification of the highest classification of data and the governing documents.

MASTER

Enter check to indicate color, black and white (B&W), optical, contact, and position A or B.

B&W

Enter check to indicate original or print.

COLOR ORIGINAL

Enter check if film is color original.

WORK PRINT.

Enter A or B if a work print.

TEST NO.

Enter test or operations number for acquired data.

DATE

Enter Universal Time Coordinated (UTC) date corresponding to time of first recorded data.

FT

Enter length of film in feet.

ITEM NO.

Enter full data item number as specified in applicable Operations Directive document.

PROD NO.

Enter the production number of the original and all sequential numbers of the copies of the film.

REF NO.

Enter the laboratory identification number that is perforated on the actual film for control in the laboratory.

EDGE NO.

Enter the edit instruction number being used for editing the film.

OD NO.

Enter number of Operations Directive (OD) under which the operation was scheduled.

SITE

Enter site identifier code for site that gathered the data.

REMARKS

Enter additional remarks necessary to properly interpret the information.

Appendix D

GENERAL PURPOSE DATA LABELING INSTRUCTIONS

CLASSIFICATION _____

TEST FACILITY

GENERAL PURPOSE DATA

TITLE _____

OP NO. _____ DATE (UTC) _____ ACQ SITE _____

OD NO. _____ DATA ITEM NO. _____

REMARKS _____

GENERAL PURPOSE DATA LABELING INSTRUCTIONS

- | | |
|----------------|---|
| CLASSIFICATION | Enter classification of the highest classification of data and the governing documents. |
| TEST FACILITY | Enter test facility or organization. |
| TITLE | Enter data item name as specified by the Operations Directive document. |
| OP NO. | Enter operations number for which the data was acquired. |
| DATE (UTC) | Enter Universal Time Coordinated (UTC) date corresponding to time of the first recorded data. |
| ACQ SITE | Enter site identifier code of the acquisition site that gathered the data. |
| OD NO. | Enter number of the Operations Directive (OD) under which the operation was scheduled. |
| DATA ITEM NO. | Enter full data item number as specified in the applicable Operations Directive document. |
| REMARKS | Enter additional information necessary to properly interpret the data. |

Appendix E

SPECIAL PURPOSE DATA LABELING INSTRUCTIONS

RECERTIFIED ANALOG TAPE LABEL

TAPE NUMBER _____
TAPE TYPE _____
MIL SIZE _____
TAPE FOOTAGE _____
DATE _____ CERTIFIED BY _____
FREQUENCY TESTED _____

RECERTIFIED ANALOG TAPE LABELING INSTRUCTIONS

TAPE NUMBER	Enter the local control number.
TAPE TYPE	Enter the appropriate type-name-manufacturer.
MIL SIZE	Enter the tape thickness in mils.
TAPE FOOTAGE	Enter the length of tape in feet.
DATE	Enter date tape was recertified.
CERTIFIED BY	Enter authorized signature or Quality Control stamp.
FREQUENCY TESTED	Enter the frequency used in recertification of tape.

DEGAUSSED

I/A/W-DSAM 8500.1 APPENDIX III
NAS SPECIFICATION

DATE: _____ SIGNED: _____

This label must be removed when tape is reused.

DEGAUSSED TAPE LABELING INSTRUCTIONS

DATE

Enter date the tape was degaussed and repackaged.

SIGNED

Enter the signature of the authorized person.