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# **AGS INTERNAL TARGETS**

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#### AGS DIVISION TECHNICAL NOTE

### No. 142

#### AGS INTERNAL TARGETS

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## Purpose

To run the internal targets at four locations. The program is call TGT and located in R space R. The data files are kept in 25, 27.

#### Locations

At present there are two horizontal locations, and one vertical. There are two targets at each location, In out, Top Bottom.

The horizontals are located at J-5 (Beta max) and D-15 (Beta min). The vertical target is located at J-19 (Beta max). Calibration

The position is read in inches, on the target page where O is the center position and plus is outside for horizontal and up for vertical. Operation

The drive is on the target page, CALL RTD15, RTJ05 and RTJ19.

To flip the target, it is necessary to run it from a terminal, and call in the function that is saved for that device. Once it is called and set up it can be switched on and off by target page. No other changes can be made from this page. The only other information on this page is the readbacks which tell the status of the target. The normal reading for a down target is  $500 \pm 200$  counts. An up target  $1500 \pm 200$  count.

A typical set up is shown on the printout, example A, which gives all the information on how to run and make changes. This set up shows how to flip the J50HI. The restore routine is used to go out and get the proper function from the data file and put it into either function A or B whichever one has been selected. This is always the first step in selecting a target. Once this is done, any of the routines can be changed by following the help call. The name of the data files are the same as the target page example C. To keep the target in the up position, first go out and get the data file for J50HI, then proceed to example B.

If you need different functions you can save them under different names in the data file and call back at will.

The hardware is arranged in such a way that no two targets on the same drive can be flipped together.

Example D shows a block diagram of the overall system, with drawing numbers for more detailed information.

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AGS Division S&P

MCR Operators

MCR Log

<sup>\*</sup> J50HI (Location at J5 and Horizontal Inside)

# FXAMPLE A

```
*TGT
```

FUNCTION (A) : A

NAME (SPR1 ) : J5HI

RESTORE

H

CAR.RET.>

OH

OFF

OUTPUT

ZERO
FUNCT

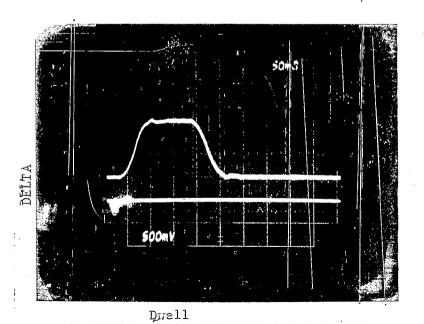
OBSIDE

FUNCT

COUTPUT

CO

Typical used routine.



TYPICAL TARGET FLIPPING

EXAMPLE TS

```
7 6
```

To Keep target in up position

XIGT

FUNCTION (A) : A

NAME (SPR1 ) : J50HI

RESTORE

AMP

up broke Hold Down Down brake Down huld

( 1795, -747, 448,-1495, 1000 298, -372)

SENDS ONE VAIUR to hold target up. BUTPUT

AMP

Ø, 0, 0) Ø, 1000, 1900

FIME

TIMES ( 100, 146, 157, 575, 655, 691)

# EXAMPLE C

RIN	TARGT		4-14	1-78 1	1:12	1.54
	MENT MODE	COMMAk		ADBAC	KAT	
	015H0			Ø		
	O15HI	g				
	.jg540			67Ø		
1. 4				tatā		
	JJ9VU	ā		580		
1 6	11941					
	SPAT1					
	§PATZ	Prince C. C. C				
	TFLPA	SPATI				
			acca			·
SEB	RTJØ5			1665		
E E B	RTJ19					

SAVT READ BACK MEXT LIB LETT

