

TABLE 2

U S NUCLEAR REGULATORY COMMISSION  
 OFFICE OF INSPECTION AND ENFORCEMENT  
 CONFIRMATORY MEASUREMENTS PROGRAM  
 FACILITY: CLINTON PS  
 FOR THE 1 QUARTER OF 1986

SAMPLE	ISOTOPE	-----NRC-----		----LICENSEE----		---LICENSEE:NRC----		
		RESULT	ERROR	RESULT	ERROR	RATIO	RES	T
L SPIKED	MN-54	4.1E-05	8.0E-07	4.5E-05	3.0E-06	1.1E 00	5.1E 01	A
	CO-60	5.9E-05	1.2E-06	6.4E-05	4.1E-06	1.1E 00	4.9E 01	A
	CS-137	6.6E-05	2.0E-06	6.8E-05	3.4E-06	1.0E 00	3.3E 01	A

## T TEST RESULTS:

A=AGREEMENT

D=DISAGREEMENT

\*=CRITERIA RELAXED

N=NO COMPARISON

8604140143 860407  
 PDR ADOCK 05000461  
 Q PDR

## ATTACHMENT 1

### CRITERIA FOR COMPARING ANALYTICAL MEASUREMENTS

This attachment provides criteria for comparing results of capability tests and verification measurements. The criteria are based on an empirical relationship which combines prior experience and the accuracy needs of this program.

In these criteria, the judgment limits are variable in relation to the comparison of the NRC's value to its associated one sigma uncertainty. As that ratio, referred to in this program as "Resolution", increases, the acceptability of a licensee's measurement should be more selective. Conversely, poorer agreement should be considered acceptable as the resolution decreases. The values in the ratio criteria may be rounded to fewer significant figures to maintain statistical consistency with the number of significant figures reported by the NRC Reference Laboratory, unless such rounding will result in a narrowed category of acceptance.

#### RESOLUTION

#### RATIO = LICENSEE VALUE/NRC REFERENCE VALUE

##### Agreement

<3	No Comparison
<u>≥</u> 3 and <4	0.4 - 2.5
<u>≥</u> 4 and <8	0.5 - 2.0
<u>≥</u> 8 and <16	0.6 - 1.67
<u>≥</u> 16 and <51	0.75 - 1.33
<u>≥</u> 51 and <200	0.80 - 1.25
<u>≥</u> 200	0.85 - 1.18

Some discrepancies may result from the use of different equipment, techniques, and for some specific nuclides. These may be factored into the acceptance criteria and identified on the data sheet.