Double Substitution Data Sheet
(Optional Sequence A)
SXXS

Laboratory data and conditions:

Operator		PM	
Date	4/16/2002	Temperature	21.5 °C
Balance	AT 1005	Pressure	743.88 mm Hg
Nominal Load	1 kg	Relative Humidity	48 %
Standard deviation of the process, from control chart, s_p			0.085 mg

Mass standard(s) data:

ID	Nominal	Mass Correction* (mg Conventional)	Expanded Unc: From Cal. Rpt. (mg)	Unc: k factor	Density g/cm^3
S (Primary)	1 kg	6.973	0.052	2	7.9926
X (W)	1 kg	TBD	TBD	2	7.95
sw	50 mg	0.001 7	0.000 6	2	7.95
S_c	1 kg	-0.30	0.12	2	7.95

*Mass Correction = *True Mass* if using buoyancy correction. Mass Correction = *Conventional Mass* if NOT using buoyancy correction. Density is used only with buoyancy corrections.

Observations:

Observation No.	Weights	Balance Observations, Units
Time: 10:15 am		
1 (O_1)	$S + t_s$	0 : 00
2 (O_2)	$X + t_x$	-4 : 66
3 (O_3)	$X + t_x + sw$	45 : 38
4 (O_4)	$S + t_s + sw$	50 : 15
Time: 10:25 am		

Measurement Assurance (Duplication of the Process):

Observation No.	Weights	Balance Observations, Units
Time: 10:30 am		
1 (O_1)	$S + t_s$	0 : 16
2 (O_2)	$S_c + t_{Sc}$	-7 : 11
3 (O_3)	$S_c + t_{Sc} + sw$	42 : 91
4 (O_4)	$S + t_s + sw$	50 : 10
Time: 10:40 am		

Note: dotted line represents decimal point