

DATA FLAGGING IN AIRS-AQS

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CURRENT AQS

- Field name – Validity Flag
- One flag per raw data value - parameter limit
- Types
 - Valid data
 - Exceptional event
 - Quality assurance
- Duplicate summaries both with & without
- Regional concurrence for exceptional events

RE-ENGINEERED AQS

- Field Name – Qualifier
- Maximum 10 qualifiers per raw data value – any parameter
- Types
 - Exceptional event
 - Quality assurance
 - Valid data
- Duplicate summaries for exceptional event
- No summary for quality assurance
- Regional concurrence for exceptional events

Quality Assurance Flags

Code	Description
1	Deviation from a CFR Requirement
2	Operational Deviation
3	Field Issue
4	Lab Issue
5	Outlier
6	QAPP Issue
T	Multiple PM2.5 Validity Flags
V	VALIDATED VALUE
W	FLOW RATE AVERAGE OUT OF SPEC.
X	FILTER TEMPERATURE DIFFERENCE OUT OF SPEC.
Y	ELAPSED SAMPLE TIME OUT OF SPEC.

Exceptional Event Flags

Code	Description
A	HIGH WINDS
B	STRATOSPHERIC OZONE INTRUSION
C	VOLCANIC ERUPTIONS
D	SANDBLASTING
E	FOREST FIRE
F	STRUCTURAL FIRE
G	HIGH POLLEN COUNT
H	CHEMICAL SPILLS & INDUST. ACCIDENTS
I	UNUSUAL TRAFFIC CONGESTION
J	CONSTRUCTION/DEMOLITION

Exceptional Event Flags

Code	Description
K	AGRICULTURAL TILLING
L	HIGHWAY CONSTRUCTION
M	REROUTING OF TRAFFIC
N	SANDING/SALTING OF STREETS
O	INFREQUENT LARGE GATHERINGS
P	ROOFING OPERATIONS
Q	PRESCRIBED BURNING
R	CLEAN UP AFTER A MAJOR DISASTER
S	SEISMIC ACTIVITY
U	SAHARA DUST