Failure Codes

A Failure Code is assigned to an interval indicating the reason(s) EnergyIP could not validate it.

Failure Codes may be broken out into different codes. The codes in EnergyIP are located under the Failures column. Failure Codes may appear as alpha or numeric values.

FAILURE CODE	FAILURE CODE NUMERIC FLAG	VALIDATION FAILED	DESCRIPTION OF FAILURE / ACTION NEEDED	VEE ISSUES OPEN BY SERVICE
SPK	1	Spike Check	The highest interval during the time period is 1.8 times higher than the third highest interval AND is at least 3 kWh. Spikes may be marked valid or edited. If a meter has recurring spike checks, the meter should go onto a different VEE service.	12, 79, 90
SUM	2	Sum Check	The sum of the intervals during the time period do not match the difference between the current and previous register reads. EnergyIP will flag all intervals during this time period, even if only one interval is found to be causing the issue.	03, 05, 12, 79, 90, 91
MIS	4	Missing Intervals	EnergyIP sees a gap in interval data between two sets of reads. Missing data must either be estimated or manually loaded. A "missing" interval CANNOT be marked valid.	90
OVR	8	Pulse Overflow	The interval values have reached the threshold of what the meter is programmed to measure. Billable kWh is not being counted if this occurs. The meter will need to be reprogrammed or replaced.	03, 05, 12, 42, 61, 79, 90, 91
TIM	16	Time Change	The meter's clock either changed or had a one-time glitch. Interval data during and around the TIM flag should be closely reviewed for inconsistencies.	none
TST	32	Test Mode	Meter techs were physically testing the meter during this time. If the power was cut to the premise, these intervals may be marked VALID. If the power was on but the meter was bypassed during testing the intervals need to be ESTIMATED.	03, 05, 12, 42, 61, 79, 90, 91
DEM	64	Maximum Demand Check	Interval value is above the KW Demand determined by the meter's current VEE service. If a meter has recurring demand checks the meter should go onto a different VEE service.	03, 05, 12, 42, 61, 79
RST	128	Meter Reset	The meter was reset which likely means the registers were also set back to zero (0).	03, 05, 12, 42, 61, 79, 90, 91
ZER	8192	Consecutive Zeros	EnergyIP sees 18 hours of consecutive zeros in the time period.	42
PRT	33554432	Partial Interval	The meter flagged the interval because it did not record usage during the entire interval. This could be due to a power outage, or a meter taken offline temporarily.	None
MMZ	134217728	Number of Zeros	EnergyIP sees multiple zeros in the time period.	None

HLO	268435456	HI-LO Thresholds Exceeded	Interval value is above or below the KW Demand determined by the meter's current custom HI/LO thresholds. If a meter has recurring HLO checks that are determined to be valid, the meters' HI/LO thresholds should be adjusted accordingly.	90, 91
NRV	562949953421312	Negative Read Validation	Reads are outside the defined NRV thresholds of the VEE service. If a hi-low value is defined (in the measurements_reference_value table) for the service point, the trigger is no longer zero. Intervals are flagged as NRV if the read is below the low threshold or above the hi threshold. For service points not on VEE service 90 or 91, the record in the record measurement table should be deleted for this check to work properly.	03, 05, 12, 42, 61, 79, 90, 91

Register Read Validation Failure Codes

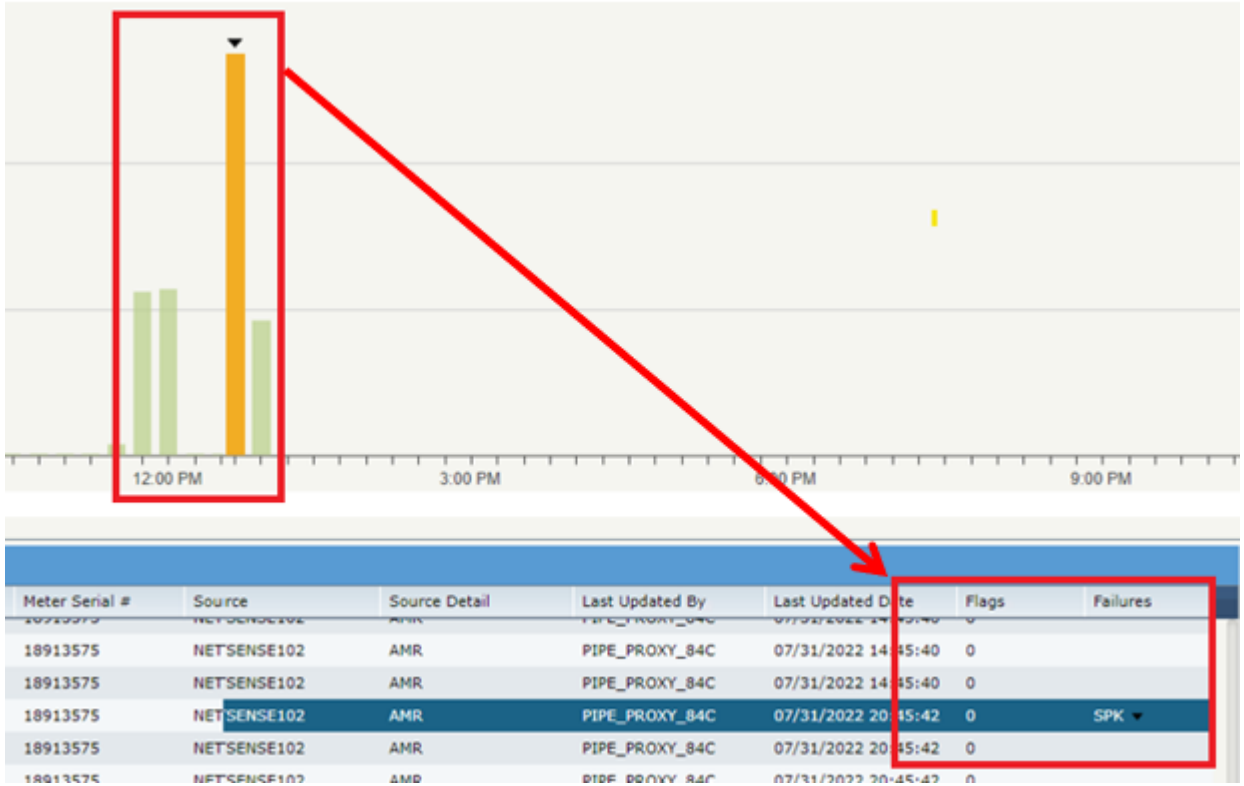
A failure code is assigned to a register indicating the reasons EnergyIP could not validate.

FAILURE CODE	FAILURE CODE NUMERIC FLAG	VALIDATION FAILED	DESCRIPTION OF FAILURE / ACTION NEEDED	VEE ISSUES OPEN BY SERVICE
CRR	131072	Corrupt Register Read	EnergyIP sees a discrepancy between the current and previous Register Read.	03, 05, 12, 20, 21, 42, 61, 79, 90, 91
DRV	262144	Register Dial Rollover	The Register has appeared to rollover in its Dials (back around to zero). If that is correct, the reads may be validated. Otherwise, the meter may have faulty readings and require service.	03, 05, 12, 20, 21, 42, 61, 79, 90, 91
NDV	16384	Register Number of Dials	Register has exceeded the number of Dials set within the meter's parameters. The Dials parameter should be checked and corrected.	03, 05, 12, 20, 21, 42, 61, 79, 90, 91
PRR	65536	Previous Register Read	EnergyIP sees the previous Register needs validation/edit, so it flagged the current Register as well.	03, 05, 12, 20, 21, 42, 61, 79, 90, 91
UUC	8192	Register Unauthorized Usage	The recorded usage is above what EnergyIP expected when it compared the current and previous register reads.	03, 05, 12, 20, 21, 42, 61, 79, 90, 91

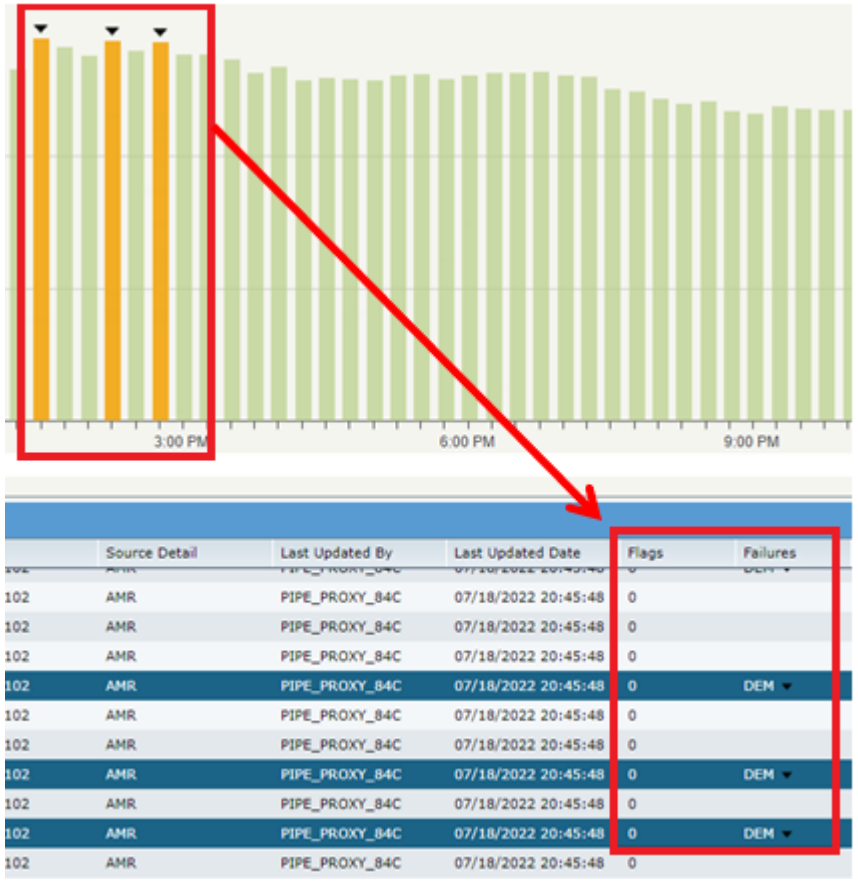
Examples of Common VEE Failure Codes in EnergyIP

Interval Data Issues

Spike

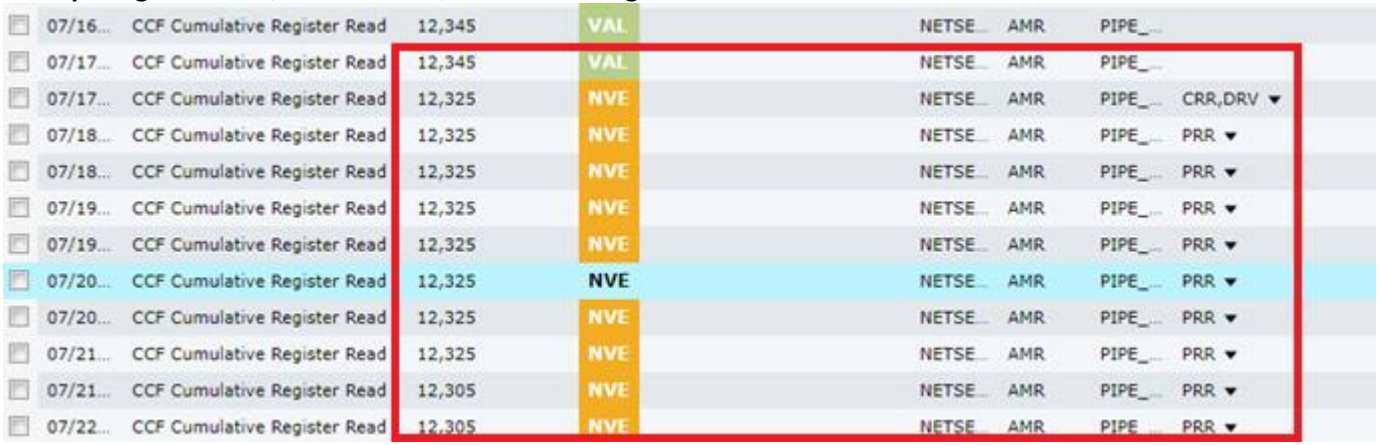


Demand



Register Read Issues

Corrupt Register Read, Dial Rollover, & Previous Register Read Failures



07/16...	CCF Cumulative Register Read	12,345	VAL		NETSE...	AMR	PIPE_...	
07/17...	CCF Cumulative Register Read	12,345	VAL		NETSE...	AMR	PIPE_...	
07/17...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	CRR,DRV
07/18...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/18...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/19...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/19...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/20...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/20...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/21...	CCF Cumulative Register Read	12,325	NVE		NETSE...	AMR	PIPE_...	PRR
07/21...	CCF Cumulative Register Read	12,305	NVE		NETSE...	AMR	PIPE_...	PRR
07/22...	CCF Cumulative Register Read	12,305	NVE		NETSE...	AMR	PIPE_...	PRR