SCC Diagnostics Tool Box

University of Minnesota Extension Service

QCW–9: Milking Equipment Evaluation

(Based on NMC Milking Equipment Evaluation Specifications)

Name: _____ Date: _____

Make of major system component: _____ Make of claws: _____

Type of system: Parlor _____ Stall barn pipeline _____

Bucket _____ Other _____

No. of units: _____ Pulsation: Alternating _____ Single _____

Milk line size: _____ Height: _____ Slope: _____ Maximum no. units per slope as used: _____

Receiver jar inlet size: _____ Balance tank to trap line size: _____ Length: _____

Trap line size: _____ Pump to balance tank size: _____ Length: _____

Pulsation line size: _____ Pulsator make: _____ Milk hose and inlet size: _____

Regulator location: _____

System operating vacuum level: _____ with 1 unit full open _____ with 2 units full open _____

Effective reserve: _____ (measure @ .6" below operating vacuum level with regulator in at least 35 CFM/ system plus 1 per unit – ASME System)

Manual reserve: _____ (same as above with regulator out)

Regulator % (closure test): _____ (should = 90%; if less, see Page 2)

Effective reserve divided by Manual reserve = _____

Override: Pass / Fail

Pulsator ratios: Front _____ Rear _____

Comments: _____

_____

_____

Average claw outlet vacuum at peak flow: _____ % of cows with with liner slips: _____

Machine positioning comments: _____

_____

_____

Determining if low regulator efficiency is malfunction or location:

System set-up with regulator out (manual reserve mode)

	Vacuum level at receiver	**Vacuum level at regulator**
At system vacuum level	_____	**A** _____
At .6 below system vacuum level (manual reserve mode)	_____	**B** _____
		A-B _____

If regulator is properly located, A-B should = at least .4"