APPENDIX E
Flight Simulator Data Collection Parameter List

Collected Data Parameter	**Units**	**Software Label**	**Description**
Time	seconds		Elapsed time
Roughness Active	true/false	zactive	Roughness model active flag
Buffet Disable Flag	true/false	mdisbuf	Generic roughness buffet disable flag
Profile Number	integer	zprofnum	Roughness profile number
Runway Roughness Level	integer	ci99_env_rwyroughness_i2	Generic roughness intensity level
Profile Gain	percent	zprofgain	Profile height gain for real world profiles
Profile Distance	feet	rwdist[1]	Aircraft nose gear distance along profile
Profile Distance	feet	rwdist[2]	Aircraft main gear distance along profile
R/W Height at Nose Gear	feet	rwheight[0]	Profile height at nose gear
R/W Height at Main Gear	feet	rwheight[1]	Profile height at main gear
Actual Cockpit Vert Acc	G	mizacc	Cockpit accelerometer vertical acceleration
Demanded Cockpit Vert Acc	G	mitrzacc	Motion system demanded cockpit vertical acceleration
Flight Rotational Acc	rad/s^2	movqd	Flight model calculated pitch acceleration
Demanded cabin heave	inches	miacc_heav	Demanded motion platform heave
Gross Weight	pounds	l99_acset_gw_f4	Aircraft gross weight
Calculated Cockpit Vert Acc	G	gcp	Roughness model calculated cockpit vertical acceleration
Airspeed	knots	vve	Aircraft airspeed
Nose Gear Force	pounds	vfzg[0]	Nose gear vertical force
Left Gear Force	pounds	vfzg[1]	Left main gear vertical force
Right Gear Force	pounds	vfzg[2]	Right main gear vertical force
Pitch Angle	degrees	vthetadg	Aircraft pitch angle
Roll Angle	degrees	vphidg	Aircraft roll angle
Heading Angle	degrees	vpsidg	Aircraft heading angle
Iyy	$slug – ft^2$	viyy	Aircraft moment of inertia around Y axis

Bending Mode Z Accel	G	modeposzaccel[4]	Cockpit vertical acceleration due to flexible modes
Nose Gear Compression	inches	vee[0]	Nose gear strut compression
LM Gear Compression	inches	vee[1]	Left main gear strut compression
RM Gear Compression	inches	vee[2]	Right main gear strut compression