

MOU SCHEDULE NO. 1 – GROUND SUPPORT EQUIPMENT

This MOU Schedule No. 1 is based on the Authority's AQIP measure for ground support equipment ¹.

- I. PROGRAM DESCRIPTION – Require that all ground support equipment associated with commercial operations achieve a fleet average NOx combined emission factors of 1.66 and 0.74 g/bhp-hr by January 1, 2023 and 2031, respectively.
- II. PROGRAM TIMEFRAME – Upon execution through 2032.
- III. AIRPORT OBLIGATIONS – The Authority agrees to:
 - A. Implement the measure by working with airport tenants to achieve the above performance targets by specified dates through accelerated turnover to cleaner equipment. Airport shall have complete discretion as to mechanisms used to implement this measure. Such mechanisms may include leases, licenses, operational requirements, or other agreements.
 - B. Beginning in 2021, and every year thereafter through 2032, provide the following information to South Coast AQMD on an annual basis by June 1 for each preceding calendar year:
 1. List of ground support equipment as provided by airlines operating at BUR with the following information:
 - a. Equipment ID
 - b. Equipment type
 - c. Fuel type
 - d. Engine model year
 - e. Power rating (hp or kW)
 - f. Engine tier level (for diesel engines)
 - g. Annual activity data for non-zero emission equipment that is sufficient to determine emission reductions at a reasonable level of accuracy (i.e., actual operating hours from hour meter readings/maintenance records, average operating hours representative of equipment type and airport, or average operating hours by equipment/fuel type from CARB's OFFROAD model, if applicable)

¹ Ground Support Equipment or "GSE" is any vehicle or equipment used to support aircraft operations that is subject to, or included in compliance plans to meet, the requirements of the California Air Resources Board (CARB) In-Use Off-Road Diesel (ORD) Vehicle Regulation Program, CARB Off-Road Large Spark-Ignition (LSI) Engine Fleet Requirements Regulation Program, or CARB Portable Equipment Registration Program and associated Portable Diesel Engine Airborne Toxic Control Measure. Furthermore, GSE as defined here only includes equipment that is not subject to compliance with SCAQMD Rule XX - RECLAIM, or included in a mobile source emission reduction credit program under SCAQMD Rule XVI.

2. For non-zero emission ground support equipment subject to this GSE measure, information regarding the sale or retirement of equipment available through CARB's DOORS system and, for pre-Tier 4 diesel, pre-2010 gasoline, or pre-2010 LPG ground support equipment relocated from BUR to another airport within the South Coast Air Basin, identify: a) the airport to which equipment is relocated, b) date of relocation, and c) estimated projected usage hours.
3. An annual emission inventory for all ground support equipment associated with commercial operations at BUR, including methodology and calculations.

IV OBLIGATIONS – South Coast AQMD agrees to:

- A. Verify emission reductions from the implementation of this AQIP measure in order to determine actual emission reductions.
- B. Ensure that any emission reduction data related to this AQIP measure and other pertinent information are accessible to the public and the USEPA.

MOU SCHEDULE NO. 1 – III.B.1. List of Ground Support Equipment

List of ground support equipment subject to this GSE measure with the following information: a) Equipment ID, b) Equipment type, c) Fuel type, d) Engine model year, e) Power rating (hp or kW), f) Engine tier level (for diesel engines), g) Annual activity data based on average operating hours from CARB's OFFROAD model

Table 1. 2023 Hollywood Burbank Airport GSE Fleet

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP01-001	golf cart	cart	electric	2008	52	--	152	electric	john deer	yes	no	no
BUR-OP01-002	air conditioner	air conditioner	diesel	2005	80	tier 2	391	ace-302-h-cup	tld	no	no	no
BUR-OP02-002	fork lift	forklift	lpg/propane	1998	46	--	591		tcm	no	no	no
BUR-OP02-003	cart	cart	electric	1999	6	--	152	taylor dunn	taylor dunn	no	no	no
BUR-OP02-004	cart	cart	electric	1999	6	--	152	taylor dunn	taylor dunn	no	no	no
BUR-OP02-005	gpu	ground power unit	diesel	2015	44	tier 4	798	jetgo-550 mti	aerospecialties	no	no	no
BUR-OP02-006	towbarless tow tractor	a/c tug narrow body	electric	1998	3	--	385		lektro	no	no	no
BUR-OP02-007	towbarless tow tractor	a/c tug narrow body	electric	2001	6	--	385	jet porter	aerospecialties	no	no	no
BUR-OP02-008	lift	lift	electric	1996	5	--	391		jlg	no	no	no
BUR-OP02-009	baggage tractor	baggage tug	gasoline	1979	116	--	85		tug	yes	no	no
BUR-OP03-001	fuel truck	fuel truck	diesel	2017	275	tier 4	83		international	no	no	no
BUR-OP03-003	fuel truck	fuel truck	diesel	2016	275	tier 4	83		international	no	no	no
BUR-OP03-004	fuel truck	fuel truck	diesel	2017	275	tier 4	83		international	no	no	no
BUR-OP03-005	fuel truck	fuel truck	diesel	2016	275	tier 4	83		international	no	no	no
BUR-OP03-006	fuel truck	fuel truck	diesel	2000	175	tier 1	62		international	no	no	no
BUR-OP03-008	fuel truck	fuel truck	diesel	2019	260	tier 4	83		international	no	no	no
BUR-OP03-009	fuel truck	fuel truck	diesel	2014	215	tier 4	83		international	no	no	no
BUR-OP03-010	fuel truck	fuel truck	diesel	2014	215	tier 4	83		international	no	no	no
BUR-OP03-011	fuel truck	fuel truck	diesel	2000	175	tier 1	208		isuzu	no	no	no
BUR-OP03-012	fuel truck	fuel truck	diesel	2000	175	tier 1	--		international	no	no	no
BUR-OP03-014	stair truck	passenger stand	gasoline	1975	300	--	52		ford	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP03-015	belt loader	belt loader	gasoline	1975	84	--	75		cargo king	no	no	no
BUR-OP03-016	belt loader	belt loader	electric	2018	6	--	706		tld	no	no	no
BUR-OP03-017	floor scrubber	sweeper	electric	1999	4	--	339		tenant	no	no	no
BUR-OP03-018	floor scrubber	sweeper	electric	1995	2	--	339		tenant	no	no	no
BUR-OP03-019	golf cart	cart	electric	2015	120	--	152		cart mart inc	no	no	no
BUR-OP03-020	golf cart	cart	electric	2002	9	--	152		ez-go	no	no	no
BUR-OP03-021	gpu	ground power unit	diesel	2014	37	tier 4	798		aero specialties	no	no	no
BUR-OP03-022	gpu	ground power unit	diesel	2015	37	tier 4	798		aero specialties	no	no	no
BUR-OP03-023	gpu	ground power unit	electric			--	798		foxcart	no	no	no
BUR-OP03-025	gpu	ground power unit	diesel	2019	74	tier 4	798		aero specialties	no	no	no
BUR-OP03-026	gpu	ground power unit	diesel	2020	147	tier 4	798		tld	no	no	no
BUR-OP03-027	gpu	ground power unit	diesel	2014	147	tier 4	798		tld	no	no	no
BUR-OP03-028	lavatory cart	lav cart	electric	2002	--	--	150		aero specialties	no	no	no
BUR-OP03-029	lavatory cart	lav cart	electric	2018	--	--	150		aero specialties	no	no	no
BUR-OP03-030	lavatory cart	lav cart	electric	2015	--	--	150		aero specialties	no	no	no
BUR-OP03-032	ramp pickup truck	service truck	gasoline	2005	282	--	730		toyota	no	no	no
BUR-OP03-033	ramp pickup truck	service truck	gasoline	2005	245	--	1,095		toyota	no	no	no
BUR-OP03-034	potable water cart	lav cart	electric	2002	--	--	150		aero specialties	no	no	no
BUR-OP03-035	potable water cart	lav cart	electric	2019	--	--	150		aero specialties	no	no	no
BUR-OP03-036	towbarless tow tractor	a/c tug narrow body	electric	2013	45	--	385		lektro	no	no	no
BUR-OP03-037	towbarless tow tractor	a/c tug narrow body	electric	2001	19	--	385		lektro	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP03-038	towbarless tow tractor	a/c tug narrow body	electric	2019	58	--	385		lektro	no	no	no
BUR-OP03-039	baggage tractor	baggage tug	diesel	2020	120	tier 4	846		tld	no	no	no
BUR-OP03-040	aircraft tractor	a/c tug narrow body	diesel	2018	68	tier 4	385		eagle	no	no	no
BUR-OP03-043	fuel truck	fuel truck	diesel	2016	195	tier 4	83		international	no	no	no
BUR-OP03-044	fuel truck	fuel truck	gasoline	2021	429	--	83		dodge	no	no	no
BUR-OP03-045	belt loader	belt loader	diesel	2022	65	tier 4	706	nbl	tld	no	no	no
BUR-OP03-046	fuel truck	fuel truck	diesel	2022	260	tier 4	42		international	no	no	no
BUR-OP03-047	aircraft tractor	a/c tug narrow body	electric	2023	28	--	258		tld	no	no	no
BUR-OP03-048	towbarless tow tractor	a/c tug narrow body	electric	2023	45	--	97		lektro	no	no	no
BUR-OP03-049	gpu	ground power unit	diesel	2023	147	tier 4	201		tld	no	no	no
BUR-OP03-050	stair truck	passenger stand	diesel	2022	51	tier 4	80		tld	no	no	no
BUR-OP17-001	air conditioner	air conditioner	diesel	2020	173	tier 4	200	w/cummins qsf 3.8l diesel engine tier 4f	tld america	yes	no	no
BUR-OP17-004	baggage tractor	baggage tug	gasoline	2021	190	--	200	w/ford 2.5l gasoline engine & gm4l70 transmission	textron gse	yes	no	no
BUR-OP17-005	baggage tractor	baggage tug	gasoline	2021	190	--	200	w/ford 2.5l gasoline engine & gm4l70 transmission	textron gse	yes	no	no
BUR-OP17-006	baggage tractor	baggage tug	gasoline	2021	190	--	200	w/ford 2.5l gasoline engine & gm4l70 transmission	textron gse	yes	no	no

MEMORANDUM OF UNDERSTANDING BETWEEN
THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
AND THE BURBANK-GLENDALE-PASADENA AIRPORT AUTHORITY
entered December 17, 2019

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP17-007	belt loader	belt loader	gasoline	2019	190	--	706	w/ford 2.5l gasoline engine & gm4l70 transmission, w/backup alarm, standard morse, block heater	textron gse	no	no	no
BUR-OP17-008	belt loader	belt loader	gasoline	2019	190	--	706	w/ford 2.5l gasoline engine & gm4l70 transmission, w/backup alarm, standard morse, block heater	textron gse	no	no	no
BUR-OP17-009	belt loader	belt loader	gasoline	2019	190	--	706	w/ford 2.5l gasoline engine & gm4l70 transmission, w/backup alarm, standard morse, block heater	textron gse	no	no	no

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BUR-OP17-010	belt loader	belt loader	gasoline	2019	190	--	706	w/ford 2.5l gasoline engine & gm4l70 transmission, w/backup alarm, standard morse, block heater	textron gse	no	no	no
BUR-OP17-011	ground power unit	ground power unit	diesel	2019	160	tier 4	798	w/cummins qsb 4.5l t4f diesel engine, 400 hz, 90 kva	tld america	no	no	no
BUR-OP17-012	ground power unit	ground power unit	diesel	2019	160	tier 4	798	w/cummins qsb 4.5l t4f diesel engine, 400 hz, 90 kva	tld america	no	no	no
BUR-OP17-013	ground power unit	ground power unit	diesel	2019	160	tier 4	798	w/cummins qsb 4.5l t4f diesel engine, 400 hz, 90 kva	tld america	no	no	no
BUR-OP17-014	lavatory cart	lav cart	gasoline	2020	4	--	150	all stainless tanks & module, full insulation w/flush immersion heater, gasoline engine, honda 4hp	phoenix metal products	yes	no	no

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BUR-OP17-015	lavatory cart	lav cart	gasoline	2020	4	--	150	all stainless tanks & module, full insulation w/flush immersion heater, gasoline engine, honda 4hp	phoenix metal products	yes	no	no
BUR-OP17-016	lavatory cart	lav cart	gasoline	2020	4	--	150	pnx wc400pl water cart, gasoline engine, honda 4hp	phoenix metal products	yes	no	no
BUR-OP17-017	pushback tractor	a/c tug narrow body	diesel	2020	74	tier 4	200	w/deutz td/tcd 3.6 l4 tier 4f diesel engine	textron gse	yes	no	no
BUR-OP17-018	pushback tractor	a/c tug narrow body	diesel	2019	74	tier 4	200	w/deutz td/tcd 3.6 l4 tier 4f diesel engine	textron gse	yes	no	no
BUR-OP17-019	pushback tractor	a/c tug narrow body	diesel	2018	74	tier 4	200	w/deutz td/tcd 3.6 l4 tier 4f diesel engine	textron gse	yes	no	no
BUR-OP17-020	maintenance truck	maint. truck	gasoline	2012	185	--	62	chevy colorado pickup truck	chevy	yes	no	yes
BUR-OP17-021	maintenance truck	maint. truck	gasoline	2012	242	--	200	chevy colorado ext cab	chevy	yes	no	yes
BUR-OP17-022	maintenance truck	maint. truck	gasoline	2015	285	--	200	chevy express	chevy	yes	no	yes
BUR-OP17-023	maintenance truck	maint. truck	gasoline	2008	195	--	200	chevy silverado	chevy	yes	no	yes
BUR-OP17-024	maintenance truck	maint. truck	gasoline	2012	385	--	141	ford f250	ford	yes	no	yes

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BUR-OP17-025	catering truck	catering truck	gasoline	2017	280	--	200	gmc g33503 box truck	gmc	yes	no	yes
BUR-OP20-001	maintenance truck	maint. truck	gasoline	2022	191	--	450	maverick				yes
BUR-OP20-002	catering truck	catering truck	gasoline	2006	185	--	928	chevy		no	no	yes
BUR-OP04-001	towbarless tow tractor	a/c tug narrow body	electric	1998	300	--	200	electric tug	lektro	yes	no	no
BUR-OP04-002	towbarless tow tractor	a/c tug narrow body	electric	2008	300	--	200	electric tug	lektro	yes	no	no
BUR-OP04-003	golf cart	cart	electric	2011	100	--	152	electric golf cart	carryall	yes	no	no
BUR-OP04-004	golf cart	cart	electric	2008	100	--	152	electric golf cart	carryall	yes	no	no
BUR-OP04-005	golf cart	cart	electric	2000	100	--	152	electric golf cart	trans-porter	yes	no	no
BUR-OP05-003	aircraft tow tractor	a/c tug narrow body	diesel	2011	175	tier 4i	385	tuga/c	jbtac	no	no	no
BUR-OP05-005	cargo loader	cargo loader	diesel	2011	125	tier 3	556	loader/a	fmcxx	no	no	no
BUR-OP05-006	cargo loader	cargo loader	diesel	2005	102	tier 2	556	loader/a	fmcxx	no	no	no
BUR-OP05-007	cargo loader	cargo loader	diesel	2005	102	tier 2	556	loader/a	fmcxx	no	no	no
BUR-OP05-009	cargo loader	cargo loader	diesel	2017	160	tier 4	556	loader/a	jbtac	no	no	no
BUR-OP05-010	fork lift	forklift	gasoline	2008	57	--	591	forklift	toyot	no	no	no
BUR-OP05-011	belt loader	belt loader	gasoline	2009	56	--	706	bltloadr	tldxx	no	no	no
BUR-OP05-012	baggage tractor	baggage tug	gasoline	2010	80	--	846	tug	tiger	no	no	no
BUR-OP05-013	baggage tractor	baggage tug	gasoline	2010	80	--	846	tug	tiger	no	no	no
BUR-OP05-014	baggage tractor	baggage tug	gasoline	2010	80	--	846	tug	tiger	no	no	no
BUR-OP05-015	baggage tractor	baggage tug	gasoline	2010	80	--	846	tug	tiger	no	no	no
BUR-OP05-016	baggage tractor	baggage tug	gasoline	2009	75	--	846	tug	tiger	no	no	no
BUR-OP05-017	baggage tractor	baggage tug	gasoline	2009	75	--	846	tug	tiger	no	no	no
BUR-OP05-018	baggage tractor	baggage tug	gasoline	2009	75	--	846	tug	tiger	no	no	no

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BUR-OP05-019	fork lift	forklift	lpg/propane	2011	51	--	591	forklift	toyot	no	no	no
BUR-OP05-020	fork lift	forklift	lpg/propane	2011	51	--	591	forklift	toyot	no	no	no
BUR-OP05-021	cargo tractor	cargo tractor	gasoline	2011	79	--	1,114	tug	tugmn	no	no	no
BUR-OP05-022	belt loader	belt loader	gasoline	1999	100	--	706	bltloadr	tugmn	no	no	no
BUR-OP05-023	cargo tractor	cargo tractor	electric	2004	100	--	858	tug	tugmn	no	no	no
BUR-OP05-025	cargo tractor	cargo tractor	gasoline	2004	100	--	1,114	tug	tugmn	no	no	no
BUR-OP05-026	cargo tractor	cargo tractor	gasoline	2004	100	--	1,114	tug	tugmn	no	no	no
BUR-OP05-027	cargo tractor	cargo tractor	gasoline	2004	100	--	1,114	tug	tugmn	no	no	no
BUR-OP05-028	fork lift	forklift	lpg/propane	2006	59	--	591	forklift	toyot	no	no	no
BUR-OP05-029	fork lift	forklift	lpg/propane	2006	59	--	591	forklift	toyot	no	no	no
BUR-OP05-030	cargo tractor	cargo tractor	gasoline	2017	86	--	1,114	tug	tugmn	no	no	no
BUR-OP05-031	maintenance truck	maint. truck	gasoline	2019	293	--	450	maintrk	isuzu	no	no	yes
BUR-OP05-032	maintenance truck	maint. truck	gasoline	1992	138	--	450	maintrk	tesco	no	no	yes
BUR-OP05-033	cart	cart	gasoline	2013	138	--	152	burdnrcar	cshmn	no	no	no
BUR-OP05-034	cart	cart	gasoline	2014	138	--	152	burdnrcar	cshmn	no	no	no
BUR-OP05-045	cargo loader	cargo loader	diesel	2021	130	tier 4	556	loader/a	rcldxx	no	no	no
BUR-OP05-046	generator	generator	diesel	1997	13	tier 0	913	lgtunit	almbr	no	no	no
BUR-OP05-047	lift	lift	gasoline	2006	20	--	391	sortpltf	waspx	no	no	no
BUR-OP05-048	generator	generator	diesel	2013	10	tier 4	913	lgtunit	terex	no	no	no
BUR-OP05-049	generator	generator	diesel	2013	10	tier 4	913	lgtunit	terex	no	no	no
BUR-OP05-050	lift	lift	diesel	2015	25	tier 4	391	sortpltf	waspx	no	no	no
BUR-OP05-051	generator	generator	diesel	2020	14	tier 4	913	lgtunit	genac	no	no	no
BUR-OP05-052	belt loader	belt loader	gasoline	2022	80	--	238	bltloadr	tlldac	no	no	no
BUR-OP05-037	air start	air start unit	diesel	1999	710	tier 1	1		125746	yes	no	no
BUR-OP05-038	ground power unit	ground power unit	diesel	2015	147	tier 4	798		175401	no	no	no
BUR-OP05-039	air start	air start unit	diesel	2015	544	tier 4	79		175402	no	no	no
BUR-OP05-040	air conditioner	air conditioner	diesel	2006	99	tier 2	182		140711	no	no	no
BUR-OP05-042	ground power unit	ground power unit	diesel	2021	155	tier 4	798			no	no	no

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BUR-OP05-043	ground power unit	ground power unit	diesel	2021	155	tier 4	798	gpu	tldxx	no	no	no
BUR-OP05-044	air conditioner	air conditioner	diesel	2018	130	tier 4	391	aircontr	tldac	no	no	no
BUR-OP05-053	air conditioner	air conditioner	diesel	2022	225	tier 4	210	aircontr	tldac	no	no	no
BUR-OP06-001	pushback	a/c tug narrow body	diesel	2004	194	tier 2	385	pushback	tug	no	no	no
BUR-OP06-002	pushback	a/c tug narrow body	diesel	2009	88	tier 3	385	pushback	tug	no	no	no
BUR-OP06-003	pushback	a/c tug narrow body	diesel	2007	88	tier 2	385	pushback	tug	no	no	no
BUR-OP06-008	gpu	ground power unit	diesel	2006	194	tier 3	798	gpu	tug	no	no	no
BUR-OP06-010	gpu	ground power unit	diesel	2010	194	tier 3	798	gpu	tug	no	no	no
BUR-OP06-011	air conditioner	air conditioner	diesel	2016	310	tier 4	391	acu	tld	no	no	no
BUR-OP06-012	air conditioner	air conditioner	diesel	2009	310	tier 3	391	acu	tld	no	no	no
BUR-OP06-013	air start	air start unit	diesel	2009	400	tier 3	79	as	tld	yes	no	no
BUR-OP06-014	lavatory cart	lav cart	gasoline	2015	5	--	150	lc	phoenix	no	no	no
BUR-OP06-015	lavatory cart	lav cart	gasoline	2009	5	--	150	lc	par kan	no	no	no
BUR-OP06-016	lavatory cart	lav cart	electric	2016	28	--	150	lc	par kan	no	no	no
BUR-OP06-020	belt loader	belt loader	electric	2007	40	--	706	bd	tug	no	no	no
BUR-OP06-021	belt loader	belt loader	diesel	2014	77	tier 4	706	bd	tug	no	no	no
BUR-OP06-022	belt loader	belt loader	gasoline	2004	30	--	200	bw	wasp	yes	no	no
BUR-OP06-023	belt loader	belt loader	diesel	2007	77	tier 2	706	bd	tug	no	no	no
BUR-OP06-024	belt loader	belt loader	electric	2012	40	--	706	bd	tug	no	no	no
BUR-OP06-025	belt loader	belt loader	diesel	2006	77	tier 2	706	bd	tug	no	no	no
BUR-OP06-027	belt loader	belt loader	diesel	2007	77	tier 2	706	bd	tug	no	no	no
BUR-OP06-028	potable water cart	lav cart	electric	2004	5	--	150	pw	phoenix	no	no	no
BUR-OP06-029	potable water cart	lav cart	electric	1999	5	--	150	pw	davey	no	no	no
BUR-OP06-030	potable water cart	lav cart	electric	2001	5	--	150	pw	par kan	no	no	no
BUR-OP06-031	bag tug	baggage tug	gasoline	2006	88	--	846	t	harlad	no	no	no

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BUR-OP06-032	bag tug	baggage tug	gasoline	2006	88	--	846	t	harlad	no	no	no
BUR-OP06-033	bag tug	baggage tug	electric	2007	40	--	846	t	tug	no	no	no
BUR-OP06-034	bag tug	baggage tug	electric	2007	40	--	846	t	tug	no	no	no
BUR-OP06-035	bag tug	baggage tug	electric	2006	40	--	846	t	tug	no	no	no
BUR-OP06-036	bag tug	baggage tug	electric	2006	40	--	846	t	tug	no	no	no
BUR-OP06-037	bag tug	baggage tug	electric	2006	40	--	846	t	tug	no	no	no
BUR-OP07-001	aircraft tractor	a/c tug narrow body	gasoline	1991	300	--	30	tug	clark	yes	yes	no
BUR-OP08-001	ground power unit	ground power unit	electric	1998	25	--	798	gpu	unitron	no	no	no
BUR-OP08-002	ground power unit	ground power unit	electric	2002	37	--	798	gpu	unitron	no	no	no
BUR-OP08-003	ground power unit	ground power unit	electric	2003	15	--	798	gpu	unitron	no	no	no
BUR-OP08-004	ground power unit	ground power unit	electric	1990	15	--	798	gpu	unitron	no	no	no
BUR-OP08-005	ground power unit	ground power unit	electric	2006	90	--	798	gpu	unitron	no	no	no
BUR-OP08-006	ground power unit	ground power unit	electric	2004	25	--	798	gpu	unitron	no	no	no
BUR-OP08-007	ground power unit	ground power unit	electric	1989	28	--	798	gpu	hobart	no	no	no
BUR-OP08-008	ground power unit	ground power unit	electric	2006	28	--	798	gpu	hobart	no	no	no
BUR-OP08-009	ground power unit	ground power unit	electric	1985	28	--	798	gpu	hobart	no	no	no
BUR-OP08-010	ground power unit	ground power unit	electric	1987	28	--	798	gpu	hobart	no	no	no
BUR-OP08-011	ground power unit	ground power unit	electric	1995	180	--	798	gpu	hobart	no	no	no
BUR-OP08-012	ground power unit	ground power unit	electric	1984	40	--	798	gpu	trilectron	no	no	no
BUR-OP08-013	hpu	generator	electric	1998	28	--	913	hpu	tronair	no	no	no
BUR-OP08-014	hpu	generator	electric	1996	28	--	913	hpu	tronair	no	no	no
BUR-OP08-015	hpu	generator	electric	2001	28	--	913	hpu	trionair	no	no	no
BUR-OP08-016	fork lift	forklift	lpg/propane	1972	25	--	45	forklift	tmc	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP08-017	aircraft tractor	a/c tug narrow body	diesel	1974	43	tier 0	1	tug	hydratug	yes	yes	no
BUR-OP08-018	aircraft tractor	a/c tug narrow body	diesel	1974	43	tier 0	1	tug	hydratug	yes	yes	no
BUR-OP08-019	aircraft tow tractor	a/c tug narrow body	electric	1996	48	--	385		lektro	no	no	no
BUR-OP08-020	aircraft tow tractor	a/c tug narrow body	electric	1989	48	--	385		lektro	no	no	no
BUR-OP08-021	golf cart	cart	electric	2002	6	--	152		clubcar	no	no	no
BUR-OP08-022	golf cart	cart	electric	1996	6	--	152		clubcar	no	no	no
BUR-OP08-023	golf cart	cart	electric	1995	6	--	152		clubcar	no	no	no
BUR-OP09-002	generator	generator	gasoline	2018	15	--	913		champion	no	no	no
BUR-OP09-003	golf cart	cart	electric	2005	20	--	152		yamaha	no	no	no
BUR-OP09-004	fork lift	forklift	lpg/propane	2012	85	--	591		toyota	no	no	no
BUR-OP09-005	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP09-006	man lift	lift	electric	2010	40	--	391		genie	no	no	no
BUR-OP09-007	air start	air start unit	diesel	2018	400	tier 4	79		tld	no	no	no
BUR-OP09-008	belt loader	belt loader	gasoline	2011	25	--	706		wasp	no	no	no
BUR-OP09-009	belt loader	belt loader	gasoline	2006	25	--	706	a2193800	wasp	no	no	no
BUR-OP09-010	bag tug	baggage tug	gasoline	2022	150	--	846		harlan ht6cl405dwdc	no	no	no
BUR-OP09-011	bag tug	baggage tug	lpg/propane	2022	150	--	846		harlan	no	no	no
BUR-OP09-012	bag tug	baggage tug	lpg/propane	2022	150	--	846		harlan	no	no	no
BUR-OP09-013	gpu	ground power unit	diesel	2003	99	tier 1	798		hobart #1	no	no	no
BUR-OP09-014	gpu	ground power unit	diesel	2006	99	tier 2	798		hobart #2	no	no	no
BUR-OP09-015	gpu	ground power unit	diesel	2004	99	tier 2	798		hobart #3	no	no	no
BUR-OP09-016	golf cart	cart	electric	2019	14	--	152		club car	no	no	no
BUR-OP09-017	belt loader	belt loader	gasoline	2022	65	--	706		tld	no	no	no
BUR-OP09-018	generator	generator	gasoline	2022	6	--	913		predator	no	no	no
BUR-OP10-001	fuel truck	fuel truck	diesel	2003	300	tier 2	120	aircraft refueler	sterling	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP10-002	fuel truck	fuel truck	diesel	2006	210	tier 3	527	aircraft refueler	international	no	no	no
BUR-OP10-003	fuel truck	fuel truck	diesel	2016	275	tier 4	975	aircraft refueler	international	no	no	no
BUR-OP10-004	fuel truck	fuel truck	diesel	2018	275	tier 4	794	aircraft refueler	international	no	no	no
BUR-OP10-005	fuel truck	fuel truck	diesel	2006	183	tier 3	278	aircraft refueler	iisuzu	no	no	no
BUR-OP10-008	aircraft tractor	a/c tug narrow body	diesel	2019	74	tier 4	499	tug	tld	no	yes	no
BUR-OP10-009	aircraft tractor	a/c tug narrow body	diesel	2017	74	tier 4	910	tug	tld	no	yes	no
BUR-OP10-010	belt loader	belt loader	diesel	2018	50	tier 4	20	belt loader	tld	no	no	no
BUR-OP10-011	gpu	ground power unit	diesel	2016	50	tier 4	278	gpu	jet go	no	no	no
BUR-OP10-012	gpu	ground power	diesel	2010	50	tier 4i	261	gpu	hobart	no	no	no
BUR-OP10-013	golf cart	cart	electric	2012	3	--	88	golf cart	club car	no	no	no
BUR-OP10-014	golf cart	cart	electric	2012	3	--	88	golf cart	e-z-g0	no	no	no
BUR-OP10-015	golf cart	cart	electric	2001	3	--	152	golf cart	e-z-go	no	no	no
BUR-OP10-016	golf cart	cart	electric	1999	3	--	152	golf cart	club car	no	no	no
BUR-OP10-017	fuel truck	fuel truck	diesel	2021	138	tier 4	679	aircraft refueler	freightliner	no	no	no
BUR-OP10-018	lavatory	lav cart	electric	1999	--	--	150		aero specialties	no	no	no
BUR-OP10-020	golf cart	cart	electric	2022	5	--	152	black	evolution	no	no	no
BUR-OP10-021	fuel truck	fuel truck	diesel	2002	175	tier 1	20	4200 vt365	international	no	no	no
BUR-OP10-022	fuel truck	fuel truck	diesel	2022	85	tier 4	400	m2106	freightliner	no	no	no
BUR-OP10-023	passenger	passenger	gasoline	1983	150	--	20	350	ford wollard	no	yes	no
BUR-OP10-024	passenger	passenger	gasoline	1970	200	--	20	150	ford wollard	no	yes	no
BUR-OP10-025	ground power	ground power	diesel	2021	50	tier 4	480	jet go 400	aero specialties	no	yes	no
BUR-OP11-001	golf cart	cart	electric	2005	10	--	152	golf cart	club car	no	no	no
BUR-OP11-002	golf cart	cart	electric	2005	10	--	152	golf cart	club car	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP11-003	towbarless tow tractor	a/c tug narrow body	electric	2018	45	--	385	towbarless tow tractor	lektro	no	no	no
BUR-OP11-004	lavatory cart	lav cart	electric	2005	--	--	150	towable lav	tronair	no	no	no
BUR-OP11-005	platform lift	lift	electric	1990	10	--	391	platform lift	us lift	no	no	no
BUR-OP11-006	other gse	other gse	electric	2019	60	--	412	hydraulic mule	tronair	no	no	no
BUR-OP11-008	ground power	ground power unit	electric	2017	32	--	798	power cart	unitron	no	no	no
BUR-OP11-009	ground power	ground power	electric	2018	32	--	798	power cart	unitron	no	no	no
BUR-OP11-010	towbarless tow tractor	a/c tug narrow body	electric	2020	31	--	385	towbarless tow tractor	lektro	no	no	no
BUR-OP11-011	man lift	lift	electric	2021	10	--	391	man lift	crown	no	no	no
BUR-OP11-012	man lift	lift	electric	2021	10	--	391	man lift	crown	no	no	no
BUR-OP12-001	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-002	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-003	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-004	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-005	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-006	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-007	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-008	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-009	bag tug	baggage tug	electric	2005	40	--	846		tug	no	no	no
BUR-OP12-010	bag tug	baggage tug	electric	2005	40	--	846		tug	no	no	no
BUR-OP12-011	bag tug	baggage tug	electric	2005	40	--	846		tug	no	no	no
BUR-OP12-012	bag tug	baggage tug	gasoline	2007	40	--	846		harlan	no	no	no
BUR-OP12-013	bag tug	baggage tug	gasoline	2007	40	--	846		harlan	no	no	no
BUR-OP12-067	bag tug	baggage tug	electric	2008	40	--	846		charlatte	no	no	no
BUR-OP12-068	bag tug	baggage tug	electric	2008	40	--	846		charlatte	no	no	no
BUR-OP12-069	bag tug	baggage tug	electric	2008	40	--	846		charlatte	no	no	no
BUR-OP12-014	bag tug	baggage tug	gasoline	2008	40	--	846		harlan	no	no	no
BUR-OP12-056	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-057	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-058	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no
BUR-OP12-059	bag tug	baggage tug	electric	2004	40	--	846		tug	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP12-060	bag tug	baggage tug	electric	2001	40	--	846		tug	no	no	no
BUR-OP12-015	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-016	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-017	belt loader	belt loader	electric	1993	60	--	706		tug	no	no	no
BUR-OP12-018	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-019	belt loader	belt loader	electric	1995	60	--	706		tug	no	no	no
BUR-OP12-020	belt loader	belt loader	electric	1995	60	--	706		tug	no	no	no
BUR-OP12-021	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-022	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-023	belt loader	belt loader	electric	1994	60	--	706		tug	no	no	no
BUR-OP12-024	belt loader	belt loader	electric	2018	60	--	706		tug	no	no	no
BUR-OP12-025	belt loader	belt loader	electric	2018	60	--	706		tug	no	no	no
BUR-OP12-061	belt loader	belt loader	electric	1995	60	--	706		tug	no	no	no
BUR-OP12-062	belt loader	belt loader	electric	1996	60	--	706		tug	no	no	no
BUR-OP12-063	belt loader	belt loader	electric	1996	60	--	706		tug	no	no	no
BUR-OP12-026	fork lift	forklift	lpg/propan	2002	52	--	591		toyota	no	no	no
BUR-OP12-027	fork lift	forklift	lpg/propan	2002	52	--	591		toyota	no	no	no
BUR-OP12-029	fork lift	forklift	lpg/propan	2018	52	--	591		toyota	no	no	no
BUR-OP12-030	lavatory truck	lav truck	gasoline	2002	100	--	1,158		phoenix metals	no	no	yes
BUR-OP12-031	passenger stairs	passenger stand	electric	2001	49	--	137		wollard	no	no	no
BUR-OP12-032	passenger stairs	passenger stand	electric	2001	49	--	137		wollard	no	no	no
BUR-OP12-033	passenger stairs	passenger stand	electric	2001	49	--	137		wollard	no	no	no
BUR-OP12-034	passenger stairs	passenger stand	electric	2004	49	--	137		wollard	no	no	no
BUR-OP12-035	passenger stairs	passenger stand	gasoline	2018	49	--	137		phoenix metals	no	no	no
BUR-OP12-036	passenger stairs	passenger stand	gasoline	2018	49	--	137		phoenix metals	no	no	no
BUR-OP12-064	passenger stairs	passenger stand	electric	2004	49	--	137		wollard	no	no	no
BUR-OP12-065	passenger stairs	passenger stand	gasoline	2017	49	--	137		phoenix metals	no	no	no
BUR-OP12-066	pushback	a/c tug narrow body	diesel	1991	110	tier 0	385		stewart&steven son	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP12-040	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-041	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-042	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-043	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-044	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-045	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-046	towbarless tow tractor	a/c tug narrow body	electric	2019	110	--	385		lektro	no	no	no
BUR-OP12-047	ground power unit	ground power unit	diesel	2015	155	tier 4	798		171034	no	no	no
BUR-OP12-048	ground power unit	ground power unit	diesel	2014	155	tier 4	798		167040	no	no	no
BUR-OP12-049	ground power unit	ground power unit	diesel	2012	256	tier 4i	798		161453	no	no	no
BUR-OP12-050	ground power unit	ground power unit	diesel	2019	155	tier 4	798		184846	no	no	no
BUR-OP12-051	ground power unit	ground power unit	diesel	2019	155	tier 4	798		184847	no	no	no
BUR-OP12-052	ground power unit	ground power unit	diesel	2019	155	tier 4	798		184848	no	no	no
BUR-OP12-053	ground power unit	ground power unit	diesel	2019	155	tier 4	798		184849	no	no	no
BUR-OP12-054	ground power unit	ground power unit	diesel	2019	155	tier 4	798		184850	no	no	no
BUR-OP12-055	air start	air start unit	diesel	2016	333	tier 4	79		173066	no	no	no
BUR-OP13-001	aircraft tow tractor	a/c tug narrow body	electric	2018		--	200	pushback tug	lektro	yes	no	no
BUR-OP13-002	aerial platform	lift	electric	2018		--	200	scissor lift	jlg lift	yes	no	no
BUR-OP13-003	boom lift	lift	electric	2018		--	200	boom lift	jlg lift	yes	no	no
BUR-OP13-004	fork lift	forklift	electric	2018		--	200	fork lift	hyster	yes	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP13-005	golf cart	cart	electric	2018		--	152	golf cart	club car	yes	no	no
BUR-OP13-006	golf cart	cart	electric	2018		--	152	colf cart	columbia	yes	no	no
BUR-OP13-007	floor scrubber	sweeper	electric	2018		--	200	floor scrubber	tenant	yes	no	no
BUR-OP13-008	electric cart	cart	electric	2018		--	152	115v/ 400cyc	unitron	yes	no	no
BUR-OP15-001	air conditioning	air conditioner	diesel	2019	130	tier 4	391	ac/heat combo	tld	no	no	no
BUR-OP15-002	air conditioning	air conditioner	diesel	2019	225	tier 4	391	ac/heat combo	tld	no	no	no
BUR-OP15-004	aircraft tow tractor	a/c tug narrow body	diesel	2019	74	tier 4	385	aircraft tow tractor	tug technologies	no	no	no
BUR-OP15-005	air start	air start unit	diesel	2019	380	tier 4	79	air start	tld	no	no	no
BUR-OP15-006	ground power unit	ground power unit	diesel	2019	155	tier 4	798	gpu	tld	no	no	no
BUR-OP15-007	ground power unit	ground power unit	diesel	2019	155	tier 4	798	gpu	tld	no	no	no
BUR-OP15-008	bag tractor	baggage tug	gasoline	2019	86	--	846	baggage	tug technologies	no	no	no
BUR-OP15-009	bag tractor	baggage tug	gasoline	2019	86	--	846	baggage tractor	tug technologies	no	no	no
BUR-OP15-010	bag tractor	baggage tug	gasoline	2019	86	--	846	baggage tractor	tug technologies	no	no	no
BUR-OP15-011	bag tractor	baggage tug	gasoline	2019	86	--	846	baggage tractor	tug technologies	no	no	no
BUR-OP15-012	belt loader	belt loader	gasoline	2019	86	--	706	belt loader	tug technologies	no	no	no
BUR-OP15-013	belt loader	belt loader	gasoline	2019	86	--	706	belt loader	tug technologies	no	no	no
BUR-OP15-014	belt loader	belt loader	gasoline	2019	86	--	706	belt loader	tug technologies	no	no	no
BUR-OP15-015	ramp pickup truck	service truck	gasoline	2013	302	--	883	pickup truck	ford	no	no	yes
BUR-OP15-016	pushback tractor	a/c tug narrow body	electric	2022	45	--	385	pushback	lektro			no
BUR-OP16-003	aircraft tow tractor	a/c tug narrow body	diesel	2014	175	tier 4	385	pushback tractor	tld	no	no	no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP16-005	cargo tractor	cargo tractor	gasoline	2004	120	--	1,114	cargo tractor	tug	no	no	no
BUR-OP16-006	cargo tractor	cargo tractor	gasoline	2004	120	--	1,114	cargo tractor	tug	no	no	no
BUR-OP16-007	cargo tractor	cargo tractor	gasoline	2004	120	--	1,114	cargo tractor	s&s	no	no	no
BUR-OP16-008	belt loader	belt loader	gasoline	2012	85	--	706	belt loader	tld	no	no	no
BUR-OP16-009	belt loader	belt loader	gasoline	2012	85	--	706	belt loader	tld	no	no	no
BUR-OP16-010	belt loader	belt loader	gasoline	2012	85	--	706	belt loader	tld	no	no	no
BUR-OP16-011	cargo loader	cargo loader	gasoline	2014	385	--	556	cargo loader	tld	no	no	no
BUR-OP16-012	belt loader	belt loader	gasoline	2019	85	--	706	belt loader	tld	no	no	no
BUR-OP16-015	lift	lift	electric	2020	85	--	391	boom lift	jlg	no	no	no
BUR-OP16-016	cargo loader	cargo loader	gasoline	2017	385	--	556	cargo loader	tld	no	no	no
BUR-OP16-017	cargo loader	cargo loader	gasoline	2018	385	--	556	cargo loader	tld	no	no	no
BUR-OP16-018	cargo tractor	cargo tractor	gasoline	2018	85	--	1,114	cargo tractor	tug	no	no	no
BUR-OP16-019	generator	generator	diesel	2018	24	tier 4	913	light cart	generac	no	no	no
BUR-OP16-020	baggage	baggage tug	gasoline	2023	85	--	846	cargo tractor	taylor dunn	no	no	no
BUR-OP16-021	generator	generator	diesel	2009	24	tier 4	913	light cart	generac	no	no	no
BUR-OP16-022	lift	lift	diesel	2009	24	tier 4	391	altd	wasp	no	no	no
BUR-OP16-023	generator	generator	diesel	2012	24	tier 4	913	light cart	generac	no	no	no
BUR-OP16-024	generator	generator	diesel	2014	24	tier 4	913	light cart	generac	no	no	no
BUR-OP16-025	generator	generator	diesel	2014	24	tier 4	913	light cart	generac	no	no	no
BUR-OP16-026	other gse	other gse	diesel	2013	24	tier 4	412	csp	wasp	no	no	no
BUR-OP16-013	air start	air start unit	diesel	2019	535	tier 4	79		189721	no	no	no
BUR-OP16-014	ground power	ground power	diesel	2010	155	tier 3	284		158385	no	no	no
BUR-OP16-027	ground power	ground power	diesel	2020	154	tier 4	798	tld	tld	no	no	no
BUR-OP14-001	golf cart	cart	electric	2001	3	--	152	electric golf	ez-go	yes	no	no
BUR-OP18-001	platform lift	lift	electric	1997		--	200	66850-010	upright, inc.	yes		no
BUR-OP18-002	fork lift	forklift	lpg/propane	1986	84	--	200	fgc 15	mitsubishi	yes		no
BUR-OP18-003	floor scrubber	sweeper	electric		1	--	200	t-12	tenant	yes		no
BUR-OP18-004	aircraft tractor	a/c tug narrow	electric	2007	45	--	200	2007ap8850sd		yes		no
BUR-OP18-005	aircraft tractor	a/c tug narrow body	diesel	2017	84	tier 4	200	tt12dal	eagle	yes		no

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Designated Low Use	Designated Emergency Use	On-Road Equivalent Engine
BUR-OP18-006	ground power unit	ground power unit	electric			--	200	6t28-600cl	hobart	yes		no
BUR-OP18-008	ground power unit	ground power unit	electric			--	200	6t28-400cl	hobart	yes		no
BUR-OP18-009	ground power unit	ground power unit	electric			--	200	19534002-md86unitron		yes		no
BUR-OP18-010	air conditioner	air conditioner	electric			--	200	484000-039	inspac	yes		no
BUR-OP18-011	air conditioner	air conditioner	electric			--	200	classic 40	movincool	yes		no
BUR-OP18-012	golf cart	cart	electric	1998	3	--	152	carryall 6	club car	yes		no
BUR-OP18-013	golf cart	cart	electric	1998	3	--	152	carryall 6	clubcar	yes		no

Notes: Reported Type, Fuel Type, Engine Model Year, Power Rating, Vehicle Description, Vehicle Manufacture, Low Use Designation, and On-Road Equivalent Engine data are provided directly by airport GSE operators. A unit's Emissions Designation is the representative emissions unit's type from which its emission rates are derived. A unit's Airport GSE ID is a unique ID assigned by the airport for tracking and identification of the unit in subsequent years.

MOU SCHEDULE NO. 1 – III.B.2. List of Sold, Retired, or Relocated Equipment

For non-zero emission ground support equipment subject to this GSE measure, information regarding the sale or retirement of equipment available through CARB's DOORS system and, for pre-Tier 4 diesel, pre-2010 gasoline, or pre-2010 LPG ground support equipment relocated from BUR to another airport within the South Coast Air Basin, identify: a) the airport to which equipment is relocated, b) date of relocation, and c) estimated projected usage hours.

The following reportable equipment was identified as having been sold, permanently retired, or relocated from operation at BUR during reporting year 2023.

Table 2. 2023 Hollywood Burbank Airport GSE pre-Tier 4 diesel, pre-2010 gasoline, or pre-2010 LPG Reportable Fleet Changes

Airport GSE ID	Reported Type	Equipment Designation	Fuel Type	Engine Model Year	Power Rating	Engine Tier Level	Annual Activity Data	Vehicle Description	Vehicle Manufacture	Reportable Change
BUR-OP02-009	Baggage Tractor	Baggage Tug	Gasoline	1979	116	--	85		Tug	Shipped to AMF Lansing Michigan(06/05/2023)
BUR-OP03-006	FUEL TRUCK	Fuel Truck	Diesel	2000	175	Tier 1	62		International	INOP as of 10/2023 - Will be relocating out of CA
BUR-OP03-028	LAVATORY CART	Lav Cart	Electric	2002	12	--	150		Aero Specialties	Retrofit (specify) Converted to Electric Pump - 02/22
BUR-OP17-020	Maintenance Truck	Maint. Truck	Gasoline	2012	185	--	62	Chevy Colorado Pickup Truck	Chevy	Moved from BUR to other airport (04/25/23/MCO)
BUR-OP17-024	Maintenance Truck	Maint. Truck	Gasoline	2012	385	--	141	Ford F250	Ford	Scrapped (09/15/2023)
BUR-OP05-023	Cargo Tractor	Cargo Tractor	Electric	2004	100	--	858	TUG	TUGMN	Sold (10/9/2023 PND)
BUR-OP05-037	Air Start	Air Start Unit	Diesel	1999	710	Tier 1	1		125,746	Sold (10/2/2023 PND)
BUR-OP05-038	Ground Power Unit	Ground Power Unit	Diesel	2015	147	Tier 4	798		175,401	corrected horsepower rating
BUR-OP05-039	Air Start	Air Start Unit	Diesel	2015	544	Tier 4	79		175,402	corrected horsepower rating
BUR-OP05-040	Air Conditioner	Air Conditioner	Diesel	2006	99	Tier 2	182		140,711	Moved from BUR to other airport (6/20/2023 to BNA)
BUR-OP05-044	Air Conditioner	Air Conditioner	Diesel	2018	130	Tier 4	391	AIRCONTR	TLDAC	corrected horsepower rating
BUR-OP10-001	Fuel Truck	Fuel Truck	Diesel	2003	300	Tier 2	120	Aircraft Refueler	Sterling	relocated to Ventura County (March/ 2023)
BUR-OP10-002	Fuel Truck	Fuel Truck	Diesel	2006	210	Tier 3	527	Aircraft Refueler	International	relocated relocated to Ventura County (Nov /2023)
BUR-OP10-013	Golf Cart	Cart	Electric	2012	3	--	88	Golf Cart	Club Car	Scrapped (Aug 2023)
BUR-OP10-014	Golf Cart	Cart	Electric	2012	3	--	88	Golf Cart	E-Z-GO	Scrapped (Aug 2023)

MOU SCHEDULE NO. 1 – III.B.3. Emission Inventory

An annual emission inventory for all ground support equipment associated with commercial operations at BUR, including methodology and calculations.

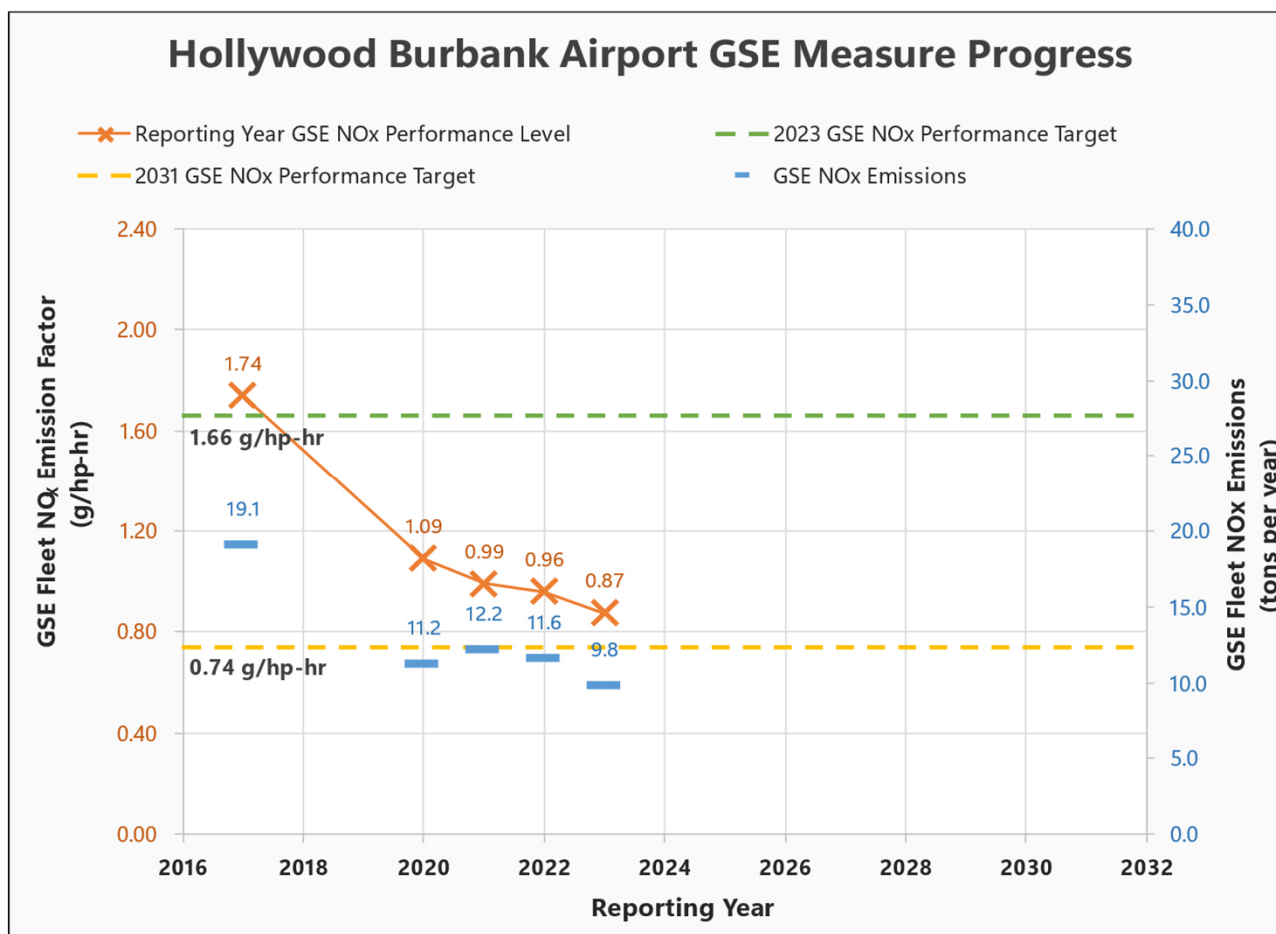
Table 3. 2023 Hollywood Burbank Airport MOU Emissions Summary

Fleet Mix ¹					Fleet Emissions (tons per year; metric tons for CO ₂ e) ²						
Total	Electric	Diesel	Gas	Other	CO	ROG	NO _x	PM ₁₀	PM _{2.5}	SO _x	CO ₂ e
282	121	85	64	12	44.1	5.3	9.8	0.36	0.31	0.01	3,652

Notes:

1. Fleet counts include >25 horsepower in-use equipment used in the calculation of the NO_x performance factor.
2. Fleet emissions include the operation of all reported equipment, including <25 horsepower and low-use (<200 hours per year) equipment.

2023 Hollywood Burbank Airport GSE Fleet Composite NO_x Emission Factor 0.87 grams per brake horsepower-hour



Methodology – Collection of Data

In February 2024, reporting forms were distributed to all operators of GSE at the airport. Operators were supplied with the final versions of their fleet reporting forms from the previous MOU reporting year and were instructed to provide information on any equipment added to their fleet during the reporting year and to verify the data for the existing fleet, which include the model years, horsepower ratings, equipment categories, fuel types, and other identifying characteristics of the GSE in operation at the airport. Operators were instructed to specify the status of all previously reported equipment and, if the status of that equipment had changed, to indicate the nature of the change (such as a unit of GSE having been scrapped, relegated to emergency use, or relocated to a different airport). Operators were also instructed to provide specific dates for the status change. For equipment relocated to a different airport, operators were instructed to further report to which airport the equipment was relocated.

All operators had completed and submitted the reporting forms by the end of April. Additional follow-up with operators was completed throughout April and May.

Each unit of reported GSE was reviewed for accuracy and program applicability based on previously submitted data, MOU requirements, and professional judgement. Non-electric GSE with power ratings less than or equal to 25 horsepower are exempt from the California Air Resource Board ("CARB") in-use off-road diesel-fueled (ORD) fleets, and large spark-ignition (LSI) fleets regulations, upon which the MOU's GSE agreement is predicated and thus were excluded from the performance level calculations. Consistent with the MOU requirements, low-use equipment (defined as operating fewer than 200 hours per year), were also excluded from performance level calculations. Both non-electric GSE with power ratings less than or equal to 25 horsepower and low- and emergency-use equipment were retained in the inventory for the purposes of determining total annual NOx emissions from GSE. Emergency-use equipment were evaluated as low-use equipment to ensure any emergency equipment use was adequately captured. Quality review was performed for each reported unit and adjustments were made to irregular data as needed. Such adjustments may include but are not limited to: adjustments to engine model year, horsepower, or fuel type data based on discussions with equipment operators or review of previously reported data; and the use of surrogate horsepower or model year data for equipment for which such data was not reported or otherwise attainable from manufacturer specifications or prior reports. For units which were reported without complete horsepower or model year data, the average horsepower or model year for similar equipment in-use at the airport were used.

Methodology – Performance Calculation

The fleet performance factor was estimated using California regulatory standard emissions models, OFFROAD2017 and EMFAC2017, developed by CARB. For each unit of GSE, a representative equipment type was identified from either the OFFROAD2017 model (for off-road engine units) or EMFAC2017 model (for on-road engine units) based on Table 2-3 in the Hollywood Burbank AQIP Technical Support Document. Emission factors from the emissions models were queried for the Los Angeles (South Coast) region for CY 2023, assuming all adopted rules for exhaust controls. All fuel types, model years, and horsepower bins (OFFROAD2017 only) were selected, and an aggregated speed was assumed (EMFAC2017 only). Emission factors were assigned to each reported unit of GSE based on the GSE category, model year, horsepower rating, and fuel type of the equipment.

Emission factors were obtained in units of grams per brake horsepower-hour from OFFROAD2017, and in units of grams per mile from EMFAC2017. For equipment paired to the EMFAC2017 model, an average on-airport speed of 15 miles per hour was multiplied against the model's emission factor and the resulting factor was divided by a reported equipment's respective horsepower to convert to the appropriate grams per brake horsepower-hour unit. The resultant factors, with units of grams per brake horsepower-hour, were weighted by reported equipment horsepower and averaged to determine the NOx fleet performance factor.

Methodology – Emission Calculation

On July 12, 2021, it was determined that the publicly available version of CARB's OFFROAD2017 model did not incorporate the engine-standard requirements associated with CARB's 2006 LSI rulemaking and subsequent 2010 amendments. These standards required new LSI equipment certified for sale in the state of California to meet stringent emission standards for NO_x and hydrocarbons which far exceeded previous requirements. As a result, LSI engine emissions calculated using the OFFROAD2017 factors resulted in vastly overpredicted emissions, particularly for new equipment. South Coast AQMD was informed of this discrepancy and discussed the issue with CARB on July 14, 2021. Updated emission factors were developed by CARB based on actual historical engine certifications in the state of California since the 2006 rulemaking came into effect. These updated factors were provided initially on July 16, 2021, and updated on July 23, 2021, with final load factors and deterioration caps provided on August 13, 2021. These finalized LSI factors were used alongside CARB's ORDAS factors for diesel equipment (which also incorporated the most recent engine standard requirements) to develop the emissions inventory.

Although the emission factors were updated, the fundamental calculation methodology was not changed from the methodology used in the 2017 AQIP and MOU. Equipment categories were paired to each reported unit and emission factors were looked up based on the model year, fuel type, horsepower rating, and equipment category of a given unit. In the CY 2017 MOU calculations, base emission factors were back calculated from the OFFROAD2017 model's tons per year per equipment population outputs. The CARB-provided updated base factors were calculated using zero-hour emissions, emission deterioration rates, fuel correction factors, and load factors.

Per unit emissions were calculated using the following formula and summed across all equipment listed at the airport to determine the fleet-total emissions:

Emissions (grams per year) =

Activity (hours per year) × **Power Rating** (horsepower) × **Load Factor** (dimensionless) × {**Zero-hour Emission Factor** (grams per brake horsepower-hour) + [**Deterioration Rate** (grams per brake horsepower-hour per hour) × **Equipment Lifetime Cumulative Operational Hours** (hours)]} × **Fuel Correction Factor** (dimensionless)