VICTOR VALLEY TRANSIT AUTHORITY

VEHICLE MAINTENANCE PLAN

January 4, 2024

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Attachments

Goals & Objectives

The goals of the Victor Valley Transit Authority maintenance department are to support the overall mission of the agency as stated:

"Our mission is to serve the community with excellent public transportation services in terms of quality, efficiency, and responsiveness".

- Quality: To increase ridership and community support by exceeding expectations.
- Efficiency: To maintain an efficient operation that represents a highly-valued service.
- Responsiveness: To provide services and facilities which are responsive to the needs of the community.

In order to support this mission, the maintenance department must set and achieve a high level of standards for vehicle safety and reliability. Maintenance related interruptions are a detriment to the efficiency and responsiveness to the riding public and portray a lack of quality service. In order to mitigate interruptions in service due to maintenance, the VVTA staff will work closely with Maintenance department to provide oversight and recommendations for service improvement and reduced maintenance related interruptions.

This will be accomplished by the strict adherence to vehicle specific factory recommended maintenance, inspection schedules of vehicles and their individual components, along with continual monitoring of vehicle road calls and repeat failures for the causes and preventative measures. Maintenance schedules and inspection sheets will be continually reviewed and updated for each type of vehicle to ensure that they meet the specific manufacturers recommended services and intervals. As new vehicles are brought into the fleet the service recommendations will be carefully reviewed and new, or revised, inspection procedures will be developed.

The technology of revenue and service vehicles is rapidly changing with the goal of reducing reliance on fossil fuels and the emissions produced by internal combustion engines. Maintenance department employees must strive to keep up with this ever-changing technology to ensure a safe and dependable fleet of transit vehicles for our riding public and to keep service interruptions to the lowest level possible.

Objectives

1. To support operations by maintaining the vehicles in a safe and reliable state of good repair, and to ensure that sufficient vehicles are always available for service by completing thorough on time PM Inspections and quality vehicle maintenance.
2. To respond to maintenance related service interruptions in a timely and efficient manner to reduce passenger and operations inconvenience.

3. To ensure a safe, secure, and sustainable work environment for all employees of VVTA and Maintenance department.
4. To maintain vehicles through on time PM inspections, zero deferred safety items, limited deferred repairs, and immediate attention to Daily Vehicle Inspection reports.
5. To provide a properly equipped repair facility and ensure that it is clean and well maintained.

Goals:

1. Reduce and maintain Transit vehicle NTD mechanical road calls to less than 5 in 100,000 miles.
2. Reduce and maintain ADA vehicle NTD mechanical road calls to less than 3 in 100,000 miles.
3. Maintain a spare ratio across all modes of transit services to 20%
4. Establish and maintain a vehicle replacement policy that exceeds the minimum useful life standards as set by the Federal Transit Administration yet provides dependable vehicles that do not require excessive maintenance and repairs as follows:

    a. Fixed Route, Commuter, & Intercity Transit buses 14 years or 650,000 miles.
    b. ADA Cutaway Buses 9 years or 250,000 miles.

Statement of Management:

Under direction of the Chief Executive Officer of the Victor Valley Transit Authority, the VVTA Maintenance Staff will oversee and assist the contracted maintenance department management and maintenance employees in carrying out their responsibilities in accomplishing VVTA's Goals and Objectives.

VVTA Management Rolls & Responsibilities

Chief Maintenance Officer:

Under general guidance, manages the Authority's facilities, grounds, and fleet operations. Ensures that inventory of rolling parts (equipment and related maintenance parts) is maintained at the appropriate levels. Manages replacement, refurbishment, procurement, and disposal of rolling stock, including fleet inspections and vehicle acceptance. Exercises direct management of contracted fleet and facility maintenance and repair.

- Responsible for overall direction, coordination, and evaluation of Facilities & Fleet Maintenance.
- Directs Contractor personnel who supervise all employees in the Facilities & Fleet Maintenance and Repair functions.
- Assigns and directs work; appraises performance.

- Responds to and resolves complaints and requests regarding service and facilities.
- Establishes and maintains paper and electronic records, contracts, and other related documentation.
- Surveys and evaluates the need to develop plans and schedules for long- range infrastructure and fleet maintenance and repair.
- Organizes available resources for acquisition, maintenance, improvement and repair of fleet and facilities.
- Conducts safety investigations and enforces safe workplace practices.
- Maintains certification and knowledge of all shop and diagnostic equipment.
- Performs the work of staff under unusual or emergency situations.
- Responds to emergency calls 24 hours a day, 7 days per week.
- Recommends training for Facilities, Fleet, and Maintenance personnel.
- Performs related duties as assigned.

Senior Fleet and Facilities Analyst:

Under direction of the Chief Maintenance Officer, assists in analyzing maintenance and repair procedures carried out by contracted service on the facility and all rolling stock. Assists in developing and monitoring plans, policies, and procedures to maintain the authority's assets in a state of good repair. Assists with the planning, procuring, and budgeting for the replacement of equipment assets as well as rolling stock.

- Responsible for overall direction, coordination, and evaluation of Facilities & Fleet Maintenance.
- Directs Contractor personnel who supervise all employees in the Facilities, Fleet, Maintenance and Repair functions.
- Assigns and directs work; appraises performance.
- Provides supervision and oversight of the Fleet and Facilities Analyst position.
- Responds to and resolves complaints and requests regarding service and facilities.
- Establishes and maintains paper and electronic records, contracts, and other related documentation.
- Surveys and evaluates the need to develop plans and schedules for long- range infrastructure and fleet maintenance and repair.
- Organizes available resources for acquisition and maintenance, improvement, and repair of fleet and facilities.
- Conducts safety investigations and other training appropriate to the work; enforces safe work practices.
- Maintains certification and knowledge of all shop and diagnostic equipment.
- Performs the work of staff under unusual or emergency situations.
- Responds to emergency calls 24 hours a day, 7 days per week.
- Recommends training for Facilities, Fleet, and Maintenance personnel
- Performs related duties as assigned.

Contractor Maintenance Management Roles & Responsibilities

General Manager:

Outlined in Contractor Maintenance department Maintenance Management Plan.

Maintenance Manager:

Outlined in Contractor Maintenance department Maintenance Management Plan.

Supervisors, leads, Mechanics and other Maintenance Personnel:

Outlined in Contractor Maintenance department Maintenance Management Plan.

VEHICLES, MAINTENANCE, AND RELATED REQUIREMENTS

Vehicle Maintenance Standards

Vehicles shall comply with the mechanical, safety, and appearance standards set forth in the Vehicle Condition Standards. Components of each Revenue Vehicle and Non-Revenue Vehicle, including body, engines, transmissions, tires, frame, furnishings, mechanical, electrical, electronic, pneumatic, hydraulic, and other operating systems, to be maintained in proper working condition and free from damage and malfunction. Any vehicle downed due to mechanical failure, damaged in any accident, or otherwise, must be repaired or replaced within 30 days. If this deadline is not met, a similar temporary replacement vehicle must be secured on the thirty first (31st) day and thereafter until the mechanical repairs or damaged vehicle is placed back in revenue service. Any provisional supplied vehicles must, at a minimum, be maintained using the same preventive maintenance, paint scheme, graphic, and cleanliness standards as the VVTA- provided Revenue and Non- Revenue Vehicles.

Vehicle Condition Standards

All VVTA Revenue and Non-Revenue vehicles, equipment, and property must be kept in a safe and clean condition. VVTA enforces strict standards to ensure that its customers are given the highest quality of safe, reliable, courteous, and dependable transit service.

At no time shall any vehicle be placed into service with a safety related issue and/or any issue that may cause concern with the public perception of VVTA's operations. Any vehicle that is unsafe or is against VVTA standards must be removed from service immediately. VVTA's Contract Compliance or senior administration staff has the authority to pull the vehicle out of service immediately, and to instruct the Contractor to switch out the vehicle immediately, or at the end of its current trip, with a safe vehicle. If there are extenuating circumstances that may delay the Contractor from replacing the vehicle within the time allowed, the Contractor will advise VVTA of the reasons for the delay, request that the vehicle remain in service, and identify the time and location the vehicle will be replaced. VVTA's Contract Compliance or senior administration staff has the option to deny this request and remove the vehicle from service.

The Agency does not tolerate any safety issues, damage, or actions to any vehicle, equipment, or property that may compromise the safety of its passengers, its employees, the Contractor's employees, and/or the general public.

- Braking systems: Any item relating to the brake system that does not meet acceptable standards will place the vehicle out of service.
- Air systems: must be clean, properly maintained, and fully operational.
- Steering and suspension: Any item relating to the steering system, such as steering box, lines, kingpins, tie rods, radius rods, bellows, valves, bushings, shocks, etc., that are worn close to or past the limits dictated by good preventive/predictive maintenance practices and OEM specifications will place the vehicle out of service.
- Engine and Transmission: excessively dirty engine compartments, any fluid leaks, worn hoses lines or belts, exhaust leaks, excessive smoke, etc. will place the vehicle out of service.
- HVAC: must be fully operational and performing to specs.
- Wheelchair lift and/or ramps and ties downs: must be fully operational.

- Destination signs: must be fully operational and readable by the public. No more than 5% of any pixels can be out, provided that the full sign is still readable.
- Fuel: Fuel leaks are unacceptable and will place the vehicle out of service.
- Gas detection/Fire suppression: Must be fully operational.
- Doors: All features that relate to operations or safety must be fully operational.
- Interiors: must be clean and graffiti free. No torn, stained or dirty seats, dirty or damaged rear or side panels, loose handrails, loose screws, etc. Any scratches of 1/4th inch or longer may be considered to be graffiti. Damaged or missing decals are not acceptable. Odors that are the result of exhaust, fuel, or other safety related issue are not acceptable and any significant bad odor that would result in customer or driver complaint are not acceptable and will place the vehicle out of service.
- Windows and window guards (if installed): must be clean, spot and graffiti free. Windows must be fully operational.
- Exteriors: Must be clean and free of all body damage, including tree scratches. Faded or torn bumpers and fender flares, excessive soap buildup, water spots, and damaged, faded, or missing decals are not acceptable.
- Tires and wheels: Tire tread must meet minimum requirements and specified in the Operating Agreement. Tire height between inner and outer tires on the same side must not differ by more than 3/32 inch. Leaking seals, loose or missing studs and lug nuts, and dirty wheels are not acceptable. Tires with cuts, grooves, or evidence of curb damage (past the manufacturer's rub bars) are not acceptable.
- Graffiti: The interior and exterior of the vehicle must be free of marks made by ink or marker, scratches, stains, chips, dents, chipped, missing or bubbling paint, dirt or trash, gum and/or loose, broken or missing pieces. Any scratches of 1/4th inch or longer may be considered to be graffiti. Damaged or missing decals are not acceptable.

It is the obligation of the Contractor to supply a reasonable stock of bus parts. Under no circumstances are parts to be removed from any bus, whether operational, down for repairs, or waiting to be disposed of, and placed onto another bus to be repaired for service, without written permission from VVTA's CMO or designee.

If the Victor Valley Transit Authority Contract Compliance Supervisor or any senior administration staff sees a vehicle with safety defects, the Contractor will be notified immediately of this finding and the vehicle will be placed out of service.

If there are any questions or disagreements on implementation of this policy, the final decision will be made by VVTA.

Vehicle Appearance Standards

The Maintenance Department is responsible for completing, at minimum, the cleaning schedule outlined in this section for the entire VVTA fleet. Bus cleaning shall be scheduled as follows:

Graffiti Removal and Fumigation

- Remove all graffiti from the bus interior and exterior as soon as possible and at least daily. VVTA requires a "zero tolerance" graffiti and vandalism policy. All graffiti and vandalism (including, but not limited to, damaged and/or vandalized windows, window frames, walls and body panels, floors, stanchions, barriers, seats, seat

inserts, seat covers, etc.) shall be repaired every night prior to deployment the next day;
- Each vehicle shall be fumigated as needed to eliminate vermin and insects.

Damaged Components

- Any worn, broken, cut, torn or vandalized components that are visible, or accessible by the public, must be repaired or replaced within twenty-four (24) hours of discovery to eliminate hazards, minimize discomfort, and/or maintain excellent appearance.

Interior Cleaning

Daily:

- Clean all windows and window tracks;
- Clean all mirrors and glass surfaces;
- Clean wheelchair tie-down hard points, straps, and hardware;
- Wipe off dashboard, gauges, and all hard surfaces that are not swept or mopped;
- Clean steering wheel;
- Wipe off all seats, front and back;
- Sweep/vacuum (no blowing with compressed air) and mop all floor and step areas (front and rear stepwell), including the driver's area, behind wheelchair lifts, and under all seats;
- Remove all gum;
- Empty trashcans;
- Restock all route booklets, comment cards, rider alerts, etc. neatly and in an organized manner;
- Clean all poles, stanchions, and barriers;
- Vacuum or blow out wheelchair ramp tracks;
- Remove any tape, trash, dirt, and debris, from floor, walls, poles, and barriers;
- Wipe down all walls and rear A/C filter grate;
- Replace damaged, peeling, and fading decals.
- Any foul, unpleasant, or safety related odors are to be addressed prior to releasing the bus the following day.

Bi-Weekly:

- Detail cleaning of driver area, driver seat, all seat belts, and dash area (including vents, bezels, louvers, switches and knobs);
- Wash and clean wheelchair ramp/lift, wheelchair ramp/lift area and doors, passenger door/mechanism areas, front and rear stepwells, and doorways;

Quarterly

- All fabric seats shall be cleaned using professional upholstery cleaning equipment;
- Detail cleaning of seats, seat frames, flooring, step areas, lighting areas (lenses and panels), ceiling, walls, panels, barriers, stanchions, driver's area, wheelchair lift/ramp and area, doors, etc.

Exterior Cleaning

Exterior vehicle cleaning shall be performed a minimum of every other day provided there is no extraordinary amount of dirt, grease, grime, oil, etc.

Daily (every other day)

- Wash full exterior of vehicle (including top);
- Front of bus (including, but not limited to, head sign glass and area, windshield(s), mirrors, hood, and bike rack), back of bus, body panels behind wheels, and any exterior area of the bus not properly cleaned by bus wash shall be scrubbed with soap and water prior to entering bus wash;
- Wheels and hubs shall be cleaned and brought to an “as new” condition (this may require special treatment);
- All chrome (typically bumpers) shall be cleaned and water spots removed;
- Bike racks shall be scrubbed with soap and water prior to entering bus wash;

Quarterly

- Wheels shall be painted or detailed as appropriate.

Semi-Annually

- Deep clean all exterior painted surfaces;
- Remove all hard water spots from all glass and painted surfaces;
- Wax, and polish.

Special Services

The Contractor shall assure that all Vehicles used in Special Services meet the highest standards of cleanliness and appearance. At a minimum, prior to being used for Special Services, each Vehicle will be cleaned and prepared using the regular cleaning procedures.

Approved Decals

All Revenue Vehicles and Non-Revenue Vehicles, including support Vehicles provided by the Contractor, shall have the decals, graphics and/or logos prescribed or approved by VVTA, located on the Vehicles in accordance with VVTA’s direction, and shall have no other markings or brandings.

Inspections:

Each Revenue Vehicle and Non-Revenue Vehicle must receive a daily pre-trip inspection by the operator. For Revenue Vehicles this inspection shall be performed prior to being placed in service and at each change of operators. Daily pre-trip inspections must be supplemented by regular time and mileage maintenance inspections to ensure safe and proper operating condition of vehicles which are to be recorded with work orders in the RTA maintenance management system (MMS). A record of all daily pre and post trip inspections shall be kept in the electronic system, Currently TransitCheck, and shall be available to VVTA, and all management staff, with 24/7 real time access.

The Maintenance department shall maintain a satisfactory California Highway Patrol (CHP) terminal inspection. If the Maintenance department receives an unsatisfactory rating from CHP, Maintenance department shall so notify VVTA executive staff immediately by telephone and in writing and shall identify steps which will be taken to correct any deficiencies. If any Revenue Vehicle is put out of service (OOS) by CHP or another cognizant authority, including VVTA staff, as a result of an unsatisfactory CHP rating, such vehicle shall not be operated, and Maintenance department shall correct the vehicle deficiency in a timely manner. The correction shall be inspected by the VVTA CMO or his/her designee before the vehicle returns to revenue service.

VVTA management reserves the right, in its sole discretion, to review maintenance records, and to inspect and reject temporarily or permanently, by notice to Maintenance department, any vehicle which VVTA deems unacceptable. In the event any vehicle with VVTA markings is rejected temporarily by VVTA staff as a result of deficient vehicle condition or appearance the condition must be corrected by Maintenance department to the satisfaction of VVTA staff before returning to service. In the event any vehicle with VVTA markings is rejected permanently by VVTA staff as a result of vehicle condition, Maintenance department shall locate and replace such vehicle with one acceptable to the executive VVTA staff.

Preventative Maintenance. -- At a minimum Maintenance department shall perform routine preventive maintenance inspections and servicing on Revenue Vehicles in accordance with the VVTA recommended services recorded in the RTA MMS (a listing is included in Attachment C). In no event shall Maintenance department be more than 500 miles, or 3 days (if PMI is on a date schedule), late or early in any preventative maintenance inspection.

Preventative Maintenance on Wheelchair Lifts, Annunciator, Farebox and Camera Systems:

Wheelchair lifts and Annunciators are extremely important and will be included in every routine PM inspection. Fareboxes and Camera Systems have “stand alone” inspections performed every 30 days.

Preventative Maintenance Check lists:

Paperless check lists that have been developed and incorporated in the MMS shall be the required list and maintenance will use the VVTA provided tablets to record entries; no other check list may be used and if an error, deletion, or addition is needed, the Chief Maintenance Officer, or Senior Fleet and Facilities Analyst be notified for correction.

Please refer to the Maintenance Management System, Currently Ron Turley Associates Fleet Management System, for a complete list of vehicle specific Preventive Maintenance schedules and Inspections forms.

Parts and Supplies: In carrying out all scheduled and unscheduled vehicle maintenance and repairs, Maintenance department shall use parts and supplies from the original equipment manufacturer (OEM) or parts and supplies that are better or equal in quality and service. VVTA reserves the right to reject the use of any after-market product and supplies that VVTA chooses is not equal or better in quality or service to the OEM product.

Fluid Analysis: As part of its maintenance program, Maintenance department shall implement a VVTA approved fluid analysis program. At appropriate intervals, Maintenance department shall retrieve

samples of the required fluids and have the samples analyzed at a facility approved by VVTA. Results of all fluid analyses shall be transmitted to VVTA Chief Maintenance Officer and/or his/her designee. The fluids covered by this program and the applicable requirements are as follows:

- Engine oil shall be analyzed during each preventive maintenance inspection, as directed by VVTA, and each unscheduled oil change.
- Transmission fluid shall be analyzed each time it is drained and replaced, in accordance with the applicable schedule, and at a minimum shall be analyzed annually.
- Coolant and differential fluid shall be analyzed at least annually.

Synthetic Lubricants: Maintenance department shall use synthetic lubricants in transmission, differential, and hydraulic reservoirs of the Revenue Vehicles except where directed not to by manufacturer. Maintenance department shall use synthetic or synthetic blend engine oil unless otherwise recommended by manufacturer. Maintenance department shall obtain VVTA's advance approval of any synthetic lubricants it intends to use in the Revenue and Non-Revenue Vehicles and any changes in the VVTA-approved synthetic lubricants.

MMS Record Keeping: VVTA will provide an automated Vehicle and Facility Maintenance Management System (MMS) to be used as a stand-alone maintenance tracking and history system. Maintenance department shall use the MMS to record, monitor, and report on all Revenue and Non-Revenue Vehicle maintenance inspections, parts utilization, fueling, and repair activities. In addition, Maintenance department shall use the MMS to record and report on warranty repair information in accordance with VVTA's policy as outlined below. Other equipment, CNG stations, and Facility information shall also be entered into the VVTA MMS system and/or other software programs as designated by VVTA. The MMS shall be directly interfaced to VVTA's computer system. Maintenance department shall properly enter all required data into the VVTA MMS system daily.

Applicable Codes and Regulations: Maintenance department shall be responsible for assuring that all vehicles utilized in service under this Agreement are safe for operation on public streets and freeways and meet all requirements of the California Vehicle Code. All parts of vehicles and all equipment mounted on or in the vehicles shall conform to the California Vehicle Safety Standards, California Administrative Code, Title 13, the Americans with Disabilities Act (ADA), and the CHP Motor Carrier Safety Regulations. VVTA shall be notified of inspections performed by any other governmental agency, which meets or exceeds the criteria for inspection established by the CHP. Results of such inspections shall be transmitted to VVTA administrative staff, and any applicable signed certification shall be displayed or carried on the vehicles.

Response Times and Actions:

In the event of a breakdown call, Maintenance department shall promptly dispatch a substitute Revenue Vehicle and call a tow truck (if appropriate). The maximum response time (i.e., the time between the receipt of a trouble call until the arrival of a substitute vehicle) shall be no more than thirty (30) minutes. VVTA reserves the right to establish additional criteria regarding the reliability of the Maintenance department response in the event of breakdown.

Maintenance department shall remove any vehicle disabled by accident, mechanical problems, or any other reason, from the scene within two (2) hours after the first report as recorded in the Daily Log. If the vehicle has been damaged by collision or fire and must be towed or transported by flatbed truck, the full vehicle must be covered by a tarpaulin or other means. Maintenance department shall comply with all applicable state and local height restrictions in towing or otherwise removing vehicles.

VEHICLE WARRANTY REPAIRS

Responsibility: Maintenance department shall be responsible for the exercise and enforcement of all warranties relating to the Revenue and Non-Revenue Vehicles and all systems, components, and subcomponents thereof, and shall also be responsible for taking all available actions to assure that all warranty covered repairs are performed in a timely fashion.

Notice of Defects: If Maintenance department detects a defect or malfunction within the applicable warranty period, Maintenance department shall promptly notify VVTA staff of the actions it is taking to enforce the warranty. Following commencement of the warranty repair process, Maintenance department shall promptly notify VVTA of any disagreements or disputes with the equipment manufacturer or supplier regarding warranty coverage. Such notice shall include a description of the disagreement or dispute and a suggested plan for resolution. Maintenance department shall also record all warranty repairs in the MMS.

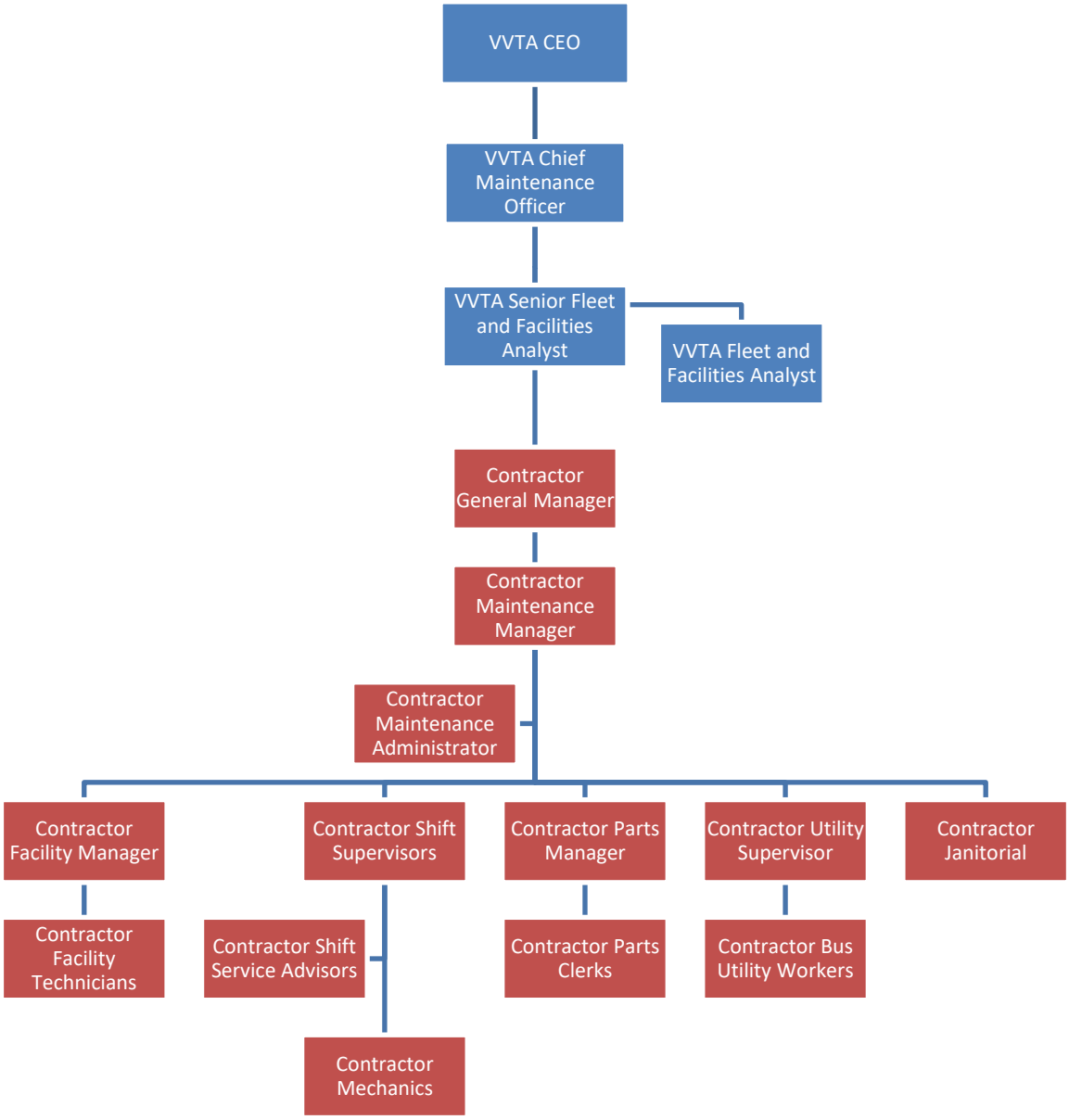
Training: Maintenance department shall assure that all appropriate maintenance personnel receive training classes on warranty procedures for the Revenue and Non- Revenue Vehicles and all systems, components, and subcomponents thereof.

VVTA Role: VVTA senior staff agrees that it will take whatever actions may be appropriate to assist Maintenance department in assuring timely warranty repairs and resolving any warranty disputes. Upon request of Maintenance department, VVTA will directly contact the equipment manufacturer or supplier to pursue the prompt resolution of warranty issue.

Maintenance Department Maintenance Management Plan

VVTA includes this management plan as an integral part of the overall VVTA maintenance plan. Where there is a conflict in procedures the VVTA plan takes precedence.

Maintenance Department Organizational Chart



Attachment A

Vehicle List

VICTOR VALLEY TRANSIT AUTHORITY

Vehicle Listing

Hesperia

Year, Make, Model	Veh #	Count	Fuel	Life Miles as of 12/26/2023
Direct Access				
2011 Eldorado Aerotech, Ford E450	155	2	UNL	337,809
	156		UNL	342,378
2015 Eldorado Aerotech, Ford E450	177	2	CNG	239,034
	178		CNG	231,462
2016 Eldorado Aerotech, Ford E450	179	4	CNG	198,782
	180		CNG	182,095
	181		CNG	239,977
	182		CNG	249,917
2017 Eldorado Aerotech, Ford E450	183	9	CNG	151,848
	184		CNG	140,964
	185		CNG	171,259
	186		CNG	192,964
	187		CNG	180,715
	188		CNG	168,326
	189		CNG	128,276
	190		CNG	177,183
	191		CNG	190,196
2019 Eldorado Aerotech, Ford E450	194	16	CNG	85,126
	195		CNG	69,005
	196		CNG	66,822
	197		CNG	71,331
	198		CNG	63,969
	199		CNG	127,759
	200		CNG	85,412
	201		CNG	75,016
	202		CNG	79,046
	203		CNG	67,230
	204		CNG	123,481
	205		CNG	79,404
	206		CNG	83,604
	207		CNG	120,952
	208		CNG	132,080
	209		CNG	76,248
TOTAL	**33**			

Motorbus				
2010 NABI 40LFW, Cummins	614	1	CNG	750,318
2014 Eldorado Axess, Cummins	616	9	CNG	583,252
	617		CNG	610,717
	618		CNG	564,142
	619		CNG	582,215
	620		CNG	546,200
	621		CNG	542,776
	622		CNG	501,688
	623		CNG	507,333
	624		CNG	526,063
2015 Eldorado Axess, Cummins	625	1	CNG	439,407
2016 Eldorado Axess, Cummins	817	3	CNG	566,391
	818		CNG	558,022
	819		CNG	560,388
2018 Eldorado Axess 35', Cummins	628	4	CNG	527,813
	629		CNG	453,080
	637		CNG	432,328
	638		CNG	403,545
2018 Eldorado Axess 40', Cummins	630	7	CNG	381,107
	631		CNG	349,763
	632		CNG	363,388
	633		CNG	394,100
	634		CNG	364,163
	635		CNG	409,384
	636		CNG	411,481
2018 Eldorado Axess 40', Cummins	642	1	CNG	214,843
2020 Eldorado Axess 40', Cummins	644	2	CNG	176,907
	645		CNG	167,449
2022 Eldorado Axess 40', Cummins	646	5	CNG	77,792
	647		CNG	66,127
	648		CNG	24,086
	649		CNG	24,073
	650		CNG	26,462
2023 Eldorado Axess 40', Cummins	651	5	CNG	177
	652		CNG	205

	653		CNG	200
	654		CNG	225
	655		CNG	186
2019 New Flyer Xcelsior, Electric	301	5	ELE	110,226
	302		ELE	111,078
	303		ELE	95,478
	304		ELE	95,284
	305		ELE	112,218
2021 New Flyer Xcelsior, Electric	311	2	ELE	49,519
	312		ELE	59,509
2022 Eldorado Axess, Cummins	507	1	CNG	114,210
2020 Eldorado EZ Rider II, Cummins	2022	6	CNG	163,466
	2023		CNG	175,169
	2024		CNG	136,337
	2025		CNG	167,013
	2026		CNG	178,133
	2027		CNG	142,171
2022 Eldorado EZ Rider II, Cummins	2028	4	CNG	69,276
	2029		CNG	93,440
	2030		CNG	84,313
	2031		CNG	88,585
Eldorado Axess 35', Cummins	510	1	CNG	367
TOTAL	**57**			
Commuter Bus				
2015 MCI D4500, Cummins	812	5	CNG	386,893
	813		CNG	372,468
	814		CNG	383,209
	815		CNG	361,051
	816		CNG	355,429
TOTAL	**5**			
MicroTransit				
2021 Dodge Ram Lonestar Promaster 3500	1011	3	UNL	14,753
	1012		UNL	18,556
	1013		UNL	14,682
2019 Eldorado Aerotech, Ford E450	192	2	CNG	60,778
	193		CNG	66,671
TOTAL	**5**			
Non Revenue Vehicles				

2016 Nissan Leaf	928	4	ELE	96,012
	929		ELE	96,333
	930		ELE	74,413
	931		ELE	79,822
2021 Ford Transit Connect	941	3	UNL	93,957
	942		UNL	99,582
	943		UNL	102,662
2020 Ford Fusion Energi	936	2	EV	99,655
	937		EV	98,503
2022 Ford Escape	947	10	UNL	43,002
	948		UNL	36,891
	950		UNL	29,465
	951		UNL	28,251
	952		UNL	24,606
	953		UNL	28,542
	954		UNL	27,044
	955		UNL	28,019
	956		UNL	28,218
	957		UNL	25,279
2022 Chrysler Voyager	1014	1	UNL	23,143
2023 Ford Escape	961	1	UNL	1,074
TOTAL	**21**			
Non Revenue Vehicles Primarily For Administration Use				
2007 Ford F150 (VVTA use)	908	1	UNL	190,076
2011 Honda Civic	918	1	CNG	186,852
2014 Polaris GEM E4 (low speed vehicle)	924	1	ELE	2,456
2016 Ford Flex (VVTA use)	925	1	UNL	118,573
2017 Ford Explorer	933	1	UNL	90,600
2018 Ford Explorer	934	2	UNL	74,215
	935		UNL	69,753
2020 GMC Terrain	944	1	UNL	60,344
2021 Ford Explorer	945	1	UNL	27,957

2022 Ford Maverick	946	1	UNL	7,734
2022 Ford F-150	949	1	UNL	10,793
2023 Ford Escape	959	2	HYB	4,060
	960		HYB	145
2022 GMC Terrain	958	1	UNL	3,937
2023 Chevrolet Traverse	963	1	UNL	1,810
TOTAL	**15**			

VICTOR VALLEY TRANSIT AUTHORITY

Vehicle Listing

Barstow

Year, Make, Model	Veh #	Count	Fuel	Life Miles as of 12/26/2023
Direct Access				
2010 Dodge Caravan	1008	2	UNL	213,588
	1009		UNL	213,396
2016 Eldorado Aerotech, Ford E450	8188	5	UNL	243,986
	8192		UNL	327,323
	8193		UNL	341,952
	8194		UNL	304,320
	8195		UNL	196,070
TOTAL	**7**			
Commuter Bus				
2015 Eldorado XHF, Cummins	626	2	CNG	358,412
	627		CNG	427,892
2018 Eldorado Axess 40', Cummins	641	1	CNG	206,684
TOTAL	**3**			
Motorbus				
2017 Eldorado Aerotech, Ford E450	8196	1	CNG	199,588
2018 Eldorado Axess 40', Cummins	639	3	CNG	246,253
	640		CNG	254,309
	643		CNG	248,072
2019 New Flyer Xcelsior, Electric	306	5	ELE	120,847
	307		ELE	121,404
	308		ELE	42,338
	309		ELE	69,566
	310		ELE	46,456
	508	2	CNG	120,771

2022 Eldorado Axxess 35', Cummins	509		CNG	107,362
TOTAL	**11**			
Non Revenue Vehicles				
2017 Ford Focus	926	2	ELE	64,662
	927		ELE	83,619
2020 Ford Fusion Energi	938	1	EV	34,451
2023 Ford Escape	962	1	HYB	2,853
2022 Chrysler Voyager	1015	1	UNL	23,236
TOTAL	**5**			
Non Revenue Vehicles Primarily For Administration Use				