## Proposed Tiered Certification Requirements for OVCC Conversion Systems

<table>
<thead>
<tr>
<th>Tier</th>
<th>Number of systems that can be sold in the tier</th>
<th>Requirements prior to sale in the tier</th>
<th>Action items to proceed to next tier</th>
</tr>
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</table>
| 1    | 0-10                                          | 1. Application (see below for items to be included)  
2. Engineering analysis showing no impact on emissions (specifically canister purge and cold starts)  
3. Submit durability test plan and initial durability data (component and in-use)  
4. System Warranty 3yr/50K mi  
5. Installation Warranty 3yr/50K mi  
6. ARB approval of engineering analysis & submittal prior to exemption/sale | 1. Conduct emission tests.  
2. Develop process for compliance with OBD.  
4. Durability test plan begins for their vehicle |
| 2    | 11-100                                       | 1. Application for Tier 2  
2. Emission test data  
3. Show that durability testing has begun  
4. Show of readiness indicators set and no OBD MIL/ DTC during emission tests  
5. OBD compliance plan  
6. System warranty: 5yr/75K mi  
7. ARB may perform confirmatory testing to verify emission test data. If requested, provide test vehicle.  
8. ARB approval of submittal prior to exemption/sale | 1. Start OBD compliance process.  
3. Continue durability testing |
| 3    | 101+                                         | 1. Application for Tier 3  
2. Durability test data to vehicle useful life  
3. Battery durability/test data  
4. OBD approval  
5. System warranty: 5yr/75K mi or remaining OEM warranty, whichever is longer  
6. ARB approval of submittal prior to exemption/sale | 1. ARB will begin in-use testing. If requested, conversion manufacturers provide converted vehicles.  

Tier 1 Application includes the following requirements: 1) Company information; 2) Description of system; 3) Installation/maintenance procedures; 4) Label; 5) Owner’s manual; 6) Manufacturer/installer installation records.

The number of systems sold is the total cumulative number of systems for the manufacturer irrespective of system types/designs, vehicle model-years, and vehicle models.

† The tiered system ends and is no longer available for any manufacturer after a cumulative total from all manufacturers reaches 5000 vehicle conversion kits. For the 5001st vehicle conversion and all conversions after, all manufacturers must meet the full certification requirements in the regulation. OBD compliance flexibility is still available under the OBD regulations.

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1 The experimental permit process allows manufacturers to produce a prototype system and test up to 5 vehicles. Manufacturers must apply for the permits and the vehicles cannot be sold.

2 Plan must be for useful life of vehicle.

3 Up to 5 vehicles temporarily needed for in-use testing.

4 5000 vehicles would be about 5% of HEVs. Currently, there are 100,000 HEVs in CA.