



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.6

Front-end and Back-end

March 27, 2009

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Revision History

Change Record			
Version Number	Description of Change	Change Effective Date	Change Entered By
1.0	Initial Publication	03/27/2009	A. Marsh

Table of Contents

- Section 1. Introduction 1-1**
 - 1.1 Purpose and Scope 1-1
 - 1.2 Documentation Organization 1-1
 - 1.3 References and Related Documentation 1-1
 - 1.4 Document Maintenance..... 1-1
- Section 2. System Overview..... 2-1**
 - 2.1 Software Requirements 2-1
 - 2.2 Hardware Requirements..... 2-1
 - 2.3 Known Limitations 2-1
 - 2.4 External Dependencies 2-1
- Section 3. Release Content 3-1**
 - 3.1 New features and the fixes for manufacturers - 3-1
 - 3.2 New features and the fixes for EPA –..... 3-2
- Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.6 4-1**
- Abbreviations and AcronymsA**

Section 1. Introduction

1.1 Purpose and Scope

The Software Release Notes (SRNs) document is provided for the Verify Maintenance Release, R4.b.6, which occurred on March 27, 2009 for the Front-end and Back-end. The SRNs address the system software and hardware requirements, any known limitations, release content regarding the specific change requests (CRs), and how the changes provide a benefit for Manufacturers and EPA.

1.2 Documentation Organization

This document is organized into the following sections:

Section 1, Introduction – Provides the purpose and organization of this document

Section 2, System Overview – Provides general system functionality, any software, and hardware requirements, known limitations, and external dependencies.

Section 3, Release Content – Provides change requests (CRs) with a description of the new features and the benefits from the enhancements for Manufacturers or EPA.

Abbreviations and Acronyms – Defines abbreviations and acronyms used throughout this document.

1.3 References and Related Documentation

The stated requirements and associated documentation for each Change Request (CR) are located in Verify Data Repository (ClearQuest). In addition, the System Requirements Specifications (SRS), System Design Document (SDD), Database Design Documents (DBDD) are located in Verify Subversion Document Repository. The documents were provided to EPA for Verify Release, R4.b.

1.4 Document Maintenance

This document is stored in the Verify Subversion Document Repository. A new SRNs document is submitted with subsequent releases.

Section 2. System Overview

Background:

- The Office of Transportation and Air Quality (OTAQ) protects the public's health and the environment by controlling air pollution from motor vehicles, engines, and the fuels used to operate them, and by encouraging travel choices that minimize emissions. These "mobile sources" include cars, light trucks, large trucks, buses, motorcycles, non-road recreational vehicles (such as dirt bikes and snowmobiles), large off-road vehicles (construction and specialized equipment), farm vehicles, lawn and garden equipment, marine engines, aircraft, and locomotives.
- OTAQ requires all manufacturers to register the vehicles/engines they are using for test purposes, to perform emissions testing, to submit the results of that testing along with additional supporting documentation, and to request and receive permission prior to entering the engine into commerce.

The Verify system is composed of two distinct applications. The first is the Manufacturer Interface (called the Front-end). This application is used by the manufacturers to submit data to the Verify system. It provides web screens to assist the manufacturers in the submission of the data and can accept machine generated submissions. The second application is the EPA Interface (called the Back-end). EPA users primarily interact with this application. It provides web screens in order for EPA compliance activities to be accomplished.

2.1 Software Requirements

The detailed software requirements are defined within each associated change request (CR) located in Verify Data Repository (ClearQuest).

2.2 Hardware Requirements

There were no specific hardware requirements. Verify Maintenance Release 4.b.6 will use existing CDX hardware.

2.3 Known Limitations

The Front-end CDX system will not work with Firefox Release 3. The Back-end Verify Portal will not function with Internet Explorer version 6. The timer in the lower left corner of the screen will not function properly in Internet Explorer 7.

2.4 External Dependencies

This release is dependent on EPA Portal and CDX technologies.

Section 3. Release Content

3.1 New features and the fixes for manufacturers -

Industry Verify Light-Duty:

Title: LD: 4b - Test Info submission: Calculated HC-NM+NOx (CR #CDX00077608)

Description: Change the application logic so that if a manufacturer submits a test result of 'HC-NM+NOX' then that value will be used for calculating the 'HC-NM+NOX' cert level.

- **Benefit:** Shifts the burden of calculating HC-NM+NOx to the system, ensuring that it is calculated the same way for all tests.

Title: LD: 4b - It is Possible to Submit Two New Carlines With the Same Identifying Information (CR # CDX00080601)

Description: It has been possible to submit two 'New' submissions. When this happens, downstream processing does not work properly (e.g. test group submissions).

- **Benefit:** Now users will not encounter an error during test group submission, they will know that they have incorrectly submitted duplicate carlines at the time of submission.

Title: LD: 4b - Create new compliance document types (CR # CDX00081634)

Description: In the Verify Upload Compliance Documents module create a new compliance document type "CAFE Model Year Report". Also, add additional Compliance Document types for the heavy-duty non-road industry that would be accepted by the present Document Module.

- **Benefit:** A standard way now exists to enter meta-data for CAFE Model Year Reports and other Compliance Documents.

Title: LD: 4b - GL-BR93 rejecting submissions that should just be a warning (CR # CDX00081821)

Description: The Transaction status is being set to 'Rejected'. As this is, suppose to be a warning message this will need to be removed from the code for the rule.

- **Benefit:** Now user submissions will not be rejected because of this warning.

Title: LD: 4b - GL BR: Test Group and Supp Info business rules need to be modified for Vehicle Class LDVT (CR # CDX00081353)

Description: TG-BR16 and corresponding software should be edited as follows: TG-BR16 - The EPA Vehicle Class (TG-205) cannot be equal to 'LDVT' (LDV + LDT1) at the Test Group Exhaust Emission Standard Level.

- **Benefit:** Manufacturers will now have to select either LDV or LDT1 as intended.

Title: LD: 4b - CERT: TG : A business rule needed to prevent a Test Group from having 2 evap families with the same name (CR # CDX00078550)

Description: A business rule is needed to reject a Test Group submission that has two evap families with the same name.

- **Benefit:** Users will not be allowed to inadvertently submit duplicate Evaporative/Refueling family names in the same Test Group data submission.

Title: LD: 4b - Verify - Decision Information pull down menu updates (CR # CDX00080882)

Description: The pull-down menu for California Exhaust standards in the Decision Information form does not have any of the BIN's listed as a choice. Need at least BIN4 and BIN5 added to the pull-down menu. Add BIN1-BIN8 to cover all BIN's.

- **Benefit:** Manufacturers can now select Federal standards that are more restrictive than the California standards they would otherwise have to comply with.

3.2 New features and the fixes for EPA –

Industry Verify Light-Duty:

Title: LD: 4b - Add "release date" to the FE Label front end (CR # CDX00081803)

Description: Add a new field to the FE Label dataset called "Release Date". This will have the exact same format as the "Introduction into Commerce Date" from the Request For Certificate dataset but should be called "Release Date" instead. This new field should be added at the main level of the FE Label dataset so that we get one per label/model type.

- **Benefit:** The Release Date can now be reviewed by EPA personnel.

Title: LD: 4b - Create new compliance document types (CR # CDX00081634)

Description: In the Verify Upload Compliance Documents module, create a new compliance document type "CAFE Model Year Report". Also, add additional Compliance Document types for the heavy-duty non-road industry that would be accepted by the present Document Module.

- **Benefit:** A standard way now exists to enter meta-data for CAFE Model Year Reports and other Compliance Documents. EPA personnel can now easily search for CAFE Model Year Reports.

Title: LD: 4b - Changes to the Industry Category to synch with Industry list (CR # CDX00082088)

Description: The Industry and the Industry Category tables should match. All the entries in the Industry table should be present in the Industry Category table.

- **Benefit:** The system effectively has one list of industries instead of two. This will make the system easier to use when searching for documents and when determining compliance representative assignment of documents.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.6

CR #	Title	Description	Project/Industry
CDX00077608	LD: 4b: Test Info submission: Calculated HC-NM+NOx	Change the logic a bit, so that if a mfr submits a test result of 'HC-NM+NOX' then that value should be used for calculating the 'HC-NM+NOX' cert level.	Verify – Light Duty
CDX00080601	LD: 4b: It is Possible to Submit Two New Carlines With the Same Identifying Information	The business rule that blocks subsequent 'New' submissions has a bug. Twice now, a manufacturer has been able to submit two 'New' submissions. When this happens, downstream processing does not work properly (e.g. test group submissions).	Verify – Light Duty
CDX00081634	LD : Create a new compliance document types	In the Verify Upload Compliance Documents module create a new compliance document type "CAFE Model Year Report." Also, add additional Compliance Document types for the heavy duty non road industry that would be accepted by the present Document Module.	Verify – Light Duty
CDX00081803	LD - FE Label, Add "release date" to the FE Label front end	Add a new field to the FE Label dataset called "Release Date". This will have the exact same format as the "Introduction Into Commerce Date" from the Request For Certificate dataset but should be called "Release Date" instead. This new field should be added at the main level of the FE Label dataset so that we get one per label/model type.	Verify – Light Duty
CDX00081353	LD: BR: Test Group and Supp Info business rules need to be modified for Vehicle Class LDVT	TG-BR16 and corresponding software should be edited as follows: TG-BR16 - The EPA Vehicle Class (TG-205) cannot be equal to 'LDVT' (LDV + LDT1) at the Test Group Exhaust Emission Standard Level.	Verify – Light Duty

CDX00078550	LD: CERT: TG : A business rule needed to prevent a Test Group from having 2 evap families with the same name	A business rule is needed to reject a Test Group submission that has 2 evap families with the same name.	Verify – Light Duty
CDX00082088	LD - Changes to the Industry Category to synch with Industry list	The Industry and the Industry Category tables should match. All the entries in the Industry table should be present in the Industry Category table.	Verify – Light Duty
CDX00080882	LD: Verify - Decision Information pull down menu updates	The pull-down menu for California Exhaust standards in the Decision Information form does not have any of the BIN's listed as a choice. Need at least BIN4 and BIN5 added to the pull-down menu.	Verify – Light Duty
CDX00081821	LD: GL-BR93 rejecting submissions that should just be a warning	The Transaction status is being set to reject. As this is, suppose to be a warning message this will need to be removed from the code for the rule.	Verify – Light Duty

Abbreviations and Acronyms

CDX	Central Data Exchange
CERT	Certification Test
CFT	Confirmatory Test
CIV	Civil (Group)
CR	Change Request
CSC	Computer Sciences Corporation
DBDD	Database Design Document
EPA	Environmental Protection Agency
FE	Fuel Economy
IUVP	In-Use Verification Program
LOD	Laboratory Operations Division
QA	Quality Assurance
SDD	System Design Document
SRN	Software Release Notes
SRS	System Requirements Specification
OTAQ	Office of Transportation and Air Quality



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.5

Front-end and Back-end

February 06, 2009

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4b - Schema - Remove Test Procedures 80-83 (CR #CDX00075269)

Description: These were temporary test procedures created for CFEIS. They should not exist in Verify. They were removed from the Frontend but not the schemas or Backend.

- **Benefit:** Temporary test procedures 80 to 83 were removed from the Cert, CFT, and IUVP xml schemas.

Title: LD: 4b: FE: Submission Subject/Text (CR # CDX00077507)

Description: Is it possible to include the submission status in the submission email message subject, text, or on the status page so users do not have to click 3 times and open the submission processing report file to find out if it was accepted or rejected? Similar to Mfr Info submission subject.

- **Benefit:** The submission status (number of accepted or rejected datasets) has been included on the inbox status page, so that users don't have to click 3 times and open the submission processing report to find out if the dataset was accepted or rejected.

Title: LD: FE: VI : Submission file name text in save message (CR # CDX00077508)

Description: Instead of waiting to be prompted to save the submitted XML file, I clicked on the link to "save" the file that is on the submit screen. The file name of the file included nonvalidated even though it had been validated.

- **Benefit:** Previously the file name of the submitted file included 'nonvalidated' even though it had been validated. This has been fixed to include a timestamp instead.

Title: LD: 4b: BR: ShiftSched (front end): 'Shift Time' can be entered out of order. (CR # CDX00077522)

Description: Need a business rule to reject transaction when shift time of shift point $x >$ shift time of shift point $x + 1$ (or greater). Example: if shift point 11's shift time=800, then shift point 12 must be greater than 800..

- **Benefit:** A Shift Schedule business rule was created that would prevent 'Shift Times' from being entered out of order. For example, if shift point 11's shift time=800, then shift point 12 must be greater than 800.

Title: LD: 4b: FE: Incorrect order of Shift Schedule data (CR # CDX00077552)

Description: Shift points in reports (submission processing and requested dataset) should be ordered according to Shift Point number.

- **Benefit:** In Shift Schedule submission processing reports and requested datasets, the shift points are now ordered by Shift Point number. Previously, the shift points were in random order.

Title: LD: 4b: Cert: Test Group Schema :Durability Group Equivalency Factor change to 200 characters (CR # CDX00078427)

Description: Currently this is a number field. EPA would like it changed to a text of 200 characters. This will allow mfrs to enter as many eq factors as needed (sometimes up to 4) as well as a short label for each factor so we know which is which.

- **Benefit:** In the Test Group dataset, Durability Group Equivalency Factor has been changed from a number to a 200 character field. This will allow manufacturers to enter as many equivalency factors as needed, as well as a short label for each factor.

Title: LD: 4b: BE: TI-BR7 Test Lab/Alternate Manufacturer Business Rule needs to be disabled (CR # CDX00078546)

Description: Remove the Business Rule that checks that a manufacturer is an Alternate Manufacturer before allowing them to use the Test Labs of another manufacturer.

- **Benefit:** The Business Rule that checked if a manufacturer was allowed to use the test lab of another manufacturer was removed. Previously, this rule required a manufacturer to be listed as an 'alternate' manufacturer of the test lab owner.

Title: LD: 4b: CERT: Test Group schema change needed for Projected Sales Field (CR # CDX00078548)

Description: In TG, When a mfr clicks both FA and CA for Certification Region Code they are then expected to enter a number 1 or greater for the Projected Federal Sales and for the Projected California Sales due the min range being currently set to 1. For Projected California Sales the requirements say the min should be zero. This needs to be changed in the schema.

- **Benefit:** The Test Group xml schema was modified to allow 0 to be entered for Projected California Sales. Previously the minimum allowed number for this field was 1.

Title: LD: 4b: BR: Updates needed for Fuel Economy business rules (CR # CDX00078685)

Description: Updates are needed for the Fuel Economy business rules. See attached file.

- **Benefit:** 35 new Fuel Economy Label business rules were added. See the updated Business Rule Document.

Title: LD: 4b: FE: Test Group pulldowns for exhaust and evap standards need text updated (CR # CDX00078741)

Description: The Exhaust and Evap Standard pull downs on the Test Group screen need to have the descriptions updated. See attached files.

- **Benefit:** The text of the Exhaust and Evap Standard pull downs on the Test Group, Supplemental Info, and Decision Info pages were updated to be in sync.

Title: LD: 4b: BR: Evap tests not matching correctly with evap standards in Test Group with multiple evap families (CR # CDX00078868)

Description: If a Test Group has multiple evap families, each with their own standards and tests, the tests from one evap family are incorrectly being compared with the standards of the other evap families. This can result in failed cert levels, which are not listed in the CSI report.

- **Benefit:** Previously, if a Test Group had multiple evap families, each with their own standards and tests, the tests from one evap family were incorrectly being compared with the standards of the other evap families. This sometimes resulted in failed cert levels, which were not listed in the CSI report. This problem has been fixed in this release.

Title: LD: Cert: Evap Useful Life field showing N/A on certs for LPG, CNG and LNG (CR # CDX00079034)

Description: For the "Full Useful Life Miles: Evaporative/Refueling Emissions:" field on the certificate we recently (12/5) made a change that would compute that value differently for Ethanol and Methanol vehicles. As part of that change, we introduced a bug that will cause any vehicles that use CNG, LPG, or LNG to list N/A in that field instead of the appropriate value.

- **Benefit:** For the "Full Useful Life Miles: Evaporative/Refueling Emissions:" field on the certificate a change was made in the last release (12/5) that would compute that value differently for Ethanol and Methanol vehicles. As part of that change a bug was introduced that would cause any vehicles that use CNG, LPG or LNG to list N/A in that field instead of the appropriate value. This bug has been fixed in this release.

Title: LD: HDIU: Include the Original Document Name in the subject and body of Inbox messages (CR # CDX00079193)

Description: Include the Original Document Name in the subject and body of Inbox messages for HDIU.

- **Benefit:** For HDIU submissions, the original document name will now be included as part of the subject and body of inbox messages. Previously, only the engine family name was included.

Title: LD: 4b: Do not reject TI submissions with 0.1 fuel economy difference (CR # CDX00079303)

Description: TI submissions are being rejected when there is a 0.1 difference between the calculated fuel economy level and the 'MFR FE' value in the submission. These submissions should be accepted but a warning should be generated.

- **Benefit:** Previously, Test Information submissions were being rejected when there was a 0.1 or more difference between the calculated fuel economy level and the 'MFR FE' value in the submission. These submissions should be now be accepted, but a warning message will be generated.

Title: LD: 4b: Problem with document name size over 50 characters (CR # CDX00079568)

Description: For the fix for CR CDX00077480, the allowed document name size was increased from 50 to 100 characters.

However, when a document with a name longer than 50 characters was submitted, the following error would result:

The document metadata name AECD_Pulse width fuel injection for engine speed control_T1.pdf does not match the name specified in the document submission.

- **Benefit:** Previously, an error occurred when a document with a name size greater than 50 characters was uploaded. This problem has been fixed in this release.

Title: LD: 4b: Certificate not displaying right evap standards, CARB exec order, or clean fuel vehicle standards (CR # CDX00079580)

Description: EPA CISD Rep reported these problems with certificates:

For vehicles certified to Federal LEV-II Evap the certificate is displaying two standards. The certificates that we have seen so far with this are: Nissan ANSXV03.8GBA, BMW 9BMXV01.6LER, 9BMWV01.6ULR, 9BMXV04.4N63.

The certificates are displaying "Applicable Evaporative/Refueling Standards: Federal LEV-II Evap, Federal Tier 2 Evap". They should not display "Federal Tier 2 Evap".

3) The CARB Executive Order # is not displayed on the certificate for Nissan 9NSXV02.082A. This is a California only certificate and should display the CARB EO #. I have added the EO # to the notes section for this certificate.

4) Clean fuel vehicle standards are not displayed on the certificate for Honda 9HNXV00.0AET. Honda has indicated in the CSI that this vehicle meets CFV, ZEV and ILEV.

- **Benefit:** For this release, three problems that were occurring with certificates were fixed. Certificates will now only display applicable evap fueling standards where the test category is EVAP and not ORVR. California only Certificates will now display the CARB Executive Order Number. Moreover, Clean Fuel Vehicle standards will now be displayed on the certificate.

Title: LD: 4b: Add Portable Fuel Container and other new industries to Doc Upload screen (CR # CDX00079681)

Description: Add the new industries 'Portable Fuel Container', 'ICI: Light-Duty', 'Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified)', and 'Nonroad / Stationary Spark-Ignited Evaporative Component' to the list of industries in the Doc Upload screen. Actually only the Industry Categories 'Portable Fuel Container' and 'Component' should be added to the list of industries, since it is actually a list of industry categories.

- **Benefit:** The Industry categories 'Portable Fuel Container' and 'Component' were added to the list of industries in the Document Upload screen.

Title: LD: 4b: FE: In Doc Upload screen there are two options for CAFE 2008&2009 Model Year Data (CR # CDX00080259)

Description: In the Document Upload screen there are 2 options in the Compliance Document Type list for CAFE 2008&2009 Model Year Data. The first one works, but selecting the second will cause an error. The second one should not be there and needs to be removed.

- **Benefit:** In the Document Upload screen there were 2 options in the Compliance Document Type list for CAFE 2008&2009 Model Year Data. The first one worked, but selecting the second one caused an error. For this release, the second one was removed.

Title: LD: 4b: BR: Modify FE Label Business Rule so model year of test doesn't need to be same as model year of submission (CR # CDX00080458)

Description: FE Label Business Rule GL-BR35 needs to be simplified to remove the requirement that the model year of the test must match the model year of the FE Label submission..

- **Benefit:** The Fuel Economy business rule GL-BR35 was modified to remove the requirement that the model year of the test must match the model year of the FE Label submission.

Title: HD: Engine Model and Engine Code (CR # CDX00080541)

Description: Engine Model should be 1-15 characters.

Engine Code should be 1-10 characters.

Right now, Engine Model must be exactly 15 characters and Engine Code must be exactly 10.

- **Benefit:** For the HDIU schema, the Engine Model was modified to allow 1 to 15 characters, instead of requiring exactly 15 characters. The Engine Code was modified to allow 1 to 10 characters, instead of requiring exactly 10 characters.

3.2 New features and the fixes for EPA

Industry Verify Light-Duty:

Title: LD: 4b - Schema - Remove Test Procedures 80-83 (CR #CDX00075269)

Description: These were temporary test procedures created for CFEIS. They should not exist in Verify. They have been removed from the Frontend but not the schemas or Backend..

- **Benefit:** Temporary test procedures 80 to 83 were removed from the Cert, CFT, and IUVP xml schemas.

Title: LD: 4b: FE: Submission Subject/Text (CR # CDX00077507)

Description: Is it possible to include the submission status in the submission email message subject, text, or on the status page so users do not have to click 3 times and open the submission processing report file to find out if it was accepted or rejected? Similar to Mfr Info submission subject.

- **Benefit:** The submission status (number of accepted or rejected datasets) has been included on the inbox status page, so that users don't have to click 3 times and open the submission processing report to find out if the dataset was accepted or rejected.

Title: LD: FE: VI : Submission file name text in save message (CR # CDX00077508)

Description: Instead of waiting to be prompted to save the submitted XML file, I clicked on the link to "save" the file that is on the submit screen. The file name of the file included nonvalidated even though it had been validated.

- **Benefit:** Previously the file name of the submitted file included 'nonvalidated' even though it had been validated. This has been fixed to include a timestamp instead.

Title: LD: 4b: BE: CTDI: Test Procedure and Fuel Type Pull-Downs not fully visible in CTDI screen (CR # CDX00077509)

Description: The pull-down arrows are not fully visible for the test procedure and fuel type pull-downs.

- **Benefit:** Previously, the Test Procedure and Fuel Type pull downs on the backend CTDI screen were not wide enough to view the whole text of the options. This has been fixed to allow all of the text to be visible.

Title: LD: 4b: BR: ShiftSched (front end): 'Shift Time' can be entered out of order. (CR # CDX00077522)

Description: Need a business rule to reject transaction when shift time of shift point $x >$ shift time of shift point $x + 1$ (or greater). Example: if shift point 11's shift time=800, then shift point 12 must be greater than 800..

- **Benefit:** A Shift Schedule business rule was created that would prevent 'Shift Times' from being entered out of order. For example, if shift point 11's shift time=800, then shift point 12 must be greater than 800.

Title: LD: 4b: BE: Add Particulate Testing Indicator to BE: CTDI 'EPA Decision' tab (CR # CDX00077534)

Description: "1. Add a 'Particulate Testing' field to the BE: CTDI 'EPA Decision' tab for every test procedure/fuel type combo that is chosen for testing ('PM Testing' if space is limited). Ideally, the software would default the value assigned to be 'N' if the fuel category was not diesel (<> 'D') for the fuel type chosen (currently: fuel types <> 9 or 19), or to 'Y' if the fuel type was a diesel fuel category. The user would be able to override defaults.

2. Create a new table attribute so this value could be stored at the 'test procedure/fuel type combination chosen'-level in the database. Name it PARTICULATE_TESTING_IND (or the like).

3. Modify the LOD data transfer Stored Procedure to write the value to a new field at the bottom of the TESTREQ_TRANS table called 'PARTICULATE' (it already exists)."

- **Benefit:** A 'Particulate Testing' field was added to the BE: CTDI 'EPA Decision' tab for every test procedure/fuel type combo that is chosen for testing. The software would default the value assigned to be 'N' if the fuel category was not

diesel (<> 'D') for the fuel type chosen (currently: fuel types <> 9 or 19), or to 'Y' if the fuel type was a diesel fuel category. The user will be able to override defaults.

Title: Email from Verify regarding Verify Test Results Report (CR # CDX00077539)

Description: When searching in Verify's document module for the referenced Verify Test Results by the File Name provided in the email, the search results included other documents that had other File Names, not just the one I typed in the search criteria. In addition, the document that had the identical File Name was at the bottom of the search results instead of at the top. Therefore, EPA would like to add a link in the email that is sent to CISD when LOD test reports goes out.

- **Benefit:** A link was added to the email that is sent to CISD when LOD test reports go out. The link goes to the Test Information details page.

Title: LD: 4b: FE: LOD Dataset Report/View Problem (CR # CDX00077543)

Description: Allow EPA (and LOD) to request reports for Test Info.

Allow EPA to request reports for any dataset.

Have the link that goes to CISD when LOD submits a Test point to the Test Info page for that test (not the document in the document module)

Have the results of the Test Info Search have a link to the XML in the doc module (Verify Test Report), the LOD PDF (LOD Test Report).

- **Benefit:** LOD is now able to request a Test Info or Shift Schedule dataset report for any manufacturer. EPA is now able to request any type of dataset report for any manufacturer. In addition, for LOD tests, a link has been added to the backend Test Information Search Results page to the Verify Test Report xml document in the document module.

Title: LD: 4b: BE: Scheduled EPA Confirmatory Tests (CR # CDX00077544)

Description: The default sort order should have the closest test dates at the top of the list and the furthest away in the future at the bottom of the list.

- **Benefit:** The default sort order of the Scheduled EPA Confirmatory Tests has been changed to show the closest test dates at the top of the list and the furthest away in the future at the bottom of the list.

Title: LD: 4b: FE: Incorrect order of Shift Schedule data (CR # CDX00077552)

Description: Shift points in reports (submission processing and requested dataset) should be ordered according to Shift Point number.

- **Benefit:** In Shift Schedule submission processing reports and requested datasets, the shift points are now ordered by Shift Point number. Previously, the shift points were in random order.

Title: LD: Decision Info Workflow: Allow Retests to be retested from "Retest Scheduled" state (CR # CDX00077610)

Description: EPA would like to change the CFT Decision Info workflow and allow Retests to be requested from the Retest Scheduled state.

- **Benefit:** For CTDI, a new retest can now be requested before a previous retest has been completed. Previously, this was not possible.

Title: LD: 4b: Cert: Test Group Schema :Durability Group Equivalency Factor change to 200 characters (CR # CDX00078427)

Description: Currently this is a number field. EPA would like it changed to a text of 200 characters. This will allow mfrs to enter as many eq factors as needed (sometimes up to 4) as well as a short label for each factor so we know which is which.

Benefit: In the Test Group dataset, Durability Group Equivalency Factor has been changed from a number to a 200 character field. This will allow manufacturers to enter as many equivalency factors as needed, as well as a short label for each factor.

Title: LD: 4b: BE: TI-BR7 Test Lab/Alternate Manufacturer Business Rule needs to be disabled (CR # CDX00078546)

Description: Remove the Business Rule that checks that a manufacturer is an Alternate Manufacturer before allowing them to use the Test Labs of another manufacturer.

- **Benefit:** The Business Rule that checked if a manufacturer was allowed to use the test lab of another manufacturer was removed. Previously, this rule required a manufacturer to be listed as an 'alternate' manufacturer of the test lab owner.

Title: LD: 4b: CERT: Test Group schema change needed for Projected Sales Field (CR # CDX00078548)

Description: In TG, When a mfr clicks both FA and CA for Certification Region Code they are then expected to enter a number 1 or greater for the Projected Federal Sales and for the Projected California Sales due the min range being currently set to 1. For Projected California Sales the requirements say the min should be zero. This needs to be changed in the schema.

- **Benefit:** The Test Group xml schema was modified to allow 0 to be entered for Projected California Sales. Previously the minimum allowed number for this field was 1.

Title: Verify LD 4b 3.1 - LOD Test Information submission correction with incorrect test number causes null pointer exception (CR # CDX00078668)

Description: Submission of a Test Information file with Process code set to 'C' and with a test number not in the system will cause a null pointer exception.

- **Benefit:** Previously if a LOD Test Information dataset was submitted with a Process Code of 'Correction' and an invalid Test Number, it would cause a generic system exception. This problem has been fixed, so that now the dataset will be rejected with the proper error message.

Title: LD: 4b: BR: Updates needed for Fuel Economy business rules (CR # CDX00078685)

Description: Updates are needed for the Fuel Economy business rules. See attached file.

- **Benefit:** 35 new Fuel Economy Label business rules were added. See the updated Business Rule Document.

Title: LD: 4b: CERT: Add default text to conditional certificates (CR # CDX00078740)

Description: The default conditional text is not showing up on Federal conditional certificates. The text should read:

Based on the request of the manufacturer, EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1835(d).

Benefit: The default conditional text on the Certificate Details screen will be ghosted out for all non-conditional certificates. Previously this was causing confusion because the presence of the default text was making it appear that all certificates were conditional.

Title: LD: 4b: BE: Test Info Details screen missing 'Diesel Adjustment Factor Usage Indicator' (CR # CDX00078840)

Description: The 'Diesel Adjustment Factor Usage Indicator' (TI-18.5) does not appear in the Test Info Details on the back end. LOD noticed it was missing after they entered tests for a diesel -fueled Audi. (e.g. Test #9ADX91000018). It should go in the 'Test Particulars' section after the Fuel Batch ID where there is now currently a gap. It can be shortened to 'Diesel Adj. Factor Usage', if space is tight.

- **Benefit:** Previously, the 'Diesel Adjustment Factor Usage Indicator' (TI-18.5) was not appearing in the Test Info Details on the back end. This problem has been fixed.

Title: LD: 4b: BR: Evap tests not matching correctly with evap standards in Test Group with multiple evap families (CR # CDX00078868)

Description: If a Test Group has multiple evap families, each with their own standards and tests, the tests from one evap family are incorrectly being compared with the standards of the other evap families. This can result in failed cert levels, which are not listed in the CSI report.

- **Benefit:** Previously, if a Test Group had multiple evap families, each with their own standards and tests, the tests from one evap family were incorrectly being compared with the standards of the other evap families. This sometimes resulted in failed cert levels, which were not listed in the CSI report. This problem has been fixed in this release.

Title: LD: Cert: Evap Useful Life field showing N/A on certs for LPG, CNG and LNG (CR # CDX00079034)

Description: For the "Full Useful Life Miles: Evaporative/Refueling Emissions:" field on the certificate we recently (12/5) made a change that would compute that value differently for Ethanol and Methanol vehicles. As part of that change we introduced a bug that will cause any vehicles that use CNG, LPG or LNG to list N/A in that field instead of the appropriate value.

- **Benefit:** For the "Full Useful Life Miles: Evaporative/Refueling Emissions:" field on the certificate a change was made in the last release (12/5) that would

compute that value differently for Ethanol and Methanol vehicles. As part of that change a bug was introduced that would cause any vehicles that use CNG, LPG or LNG to list N/A in that field instead of the appropriate value. This bug has been fixed in this release.

Title: LD: 4b: Do not reject TI submissions with 0.1 fuel economy difference (CR # CDX00079303)

Description: TI submissions are being rejected when there is a 0.1 difference between the calculated fuel economy level and the 'MFR FE' value in the submission. These submissions should be accepted, but a warning should be generated.

- **Benefit:** Previously, Test Information submissions were being rejected when there was a 0.1 or more difference between the calculated fuel economy level and the 'MFR FE' value in the submission. These submissions should be now be accepted, but a warning message will be generated.

Title: LD: 4b: Certificate not displaying right evap standards, CARB exec order, or clean fuel vehicle standards (CR # CDX00079580)

Description: EPA CISD Rep reported these problems with certificates: For vehicles certified to Federal LEV-II Evap the certificate is displaying two standards. The certificates that we have seen so far with this are: Nissan ANSXV03.8GBA, BMW 9BMXV01.6LER, 9BMWV01.6ULR, 9BMXV04.4N63.

The certificates are displaying "Applicable Evaporative/Refueling Standards: Federal LEV-II Evap, Federal Tier 2 Evap". They should not display "Federal Tier 2 Evap".

3) The CARB Executive Order # is not displayed on the certificate for Nissan 9NSXV02.082A. This is a California only certificate and should display the CARB EO #. I have added the EO # to the notes section for this certificate.

4) Clean fuel vehicle standards are not displayed on the certificate for Honda 9HNXV00.0AET. Honda has indicated in the CSI that this vehicle meets CFV, ZEV and ILEV.

- **Benefit:** For this release, three problems that were occurring with certificates were fixed. Certificates will now only display applicable evap fueling standards where the test category is EVAP and not ORVR. California only Certificates will now display the CARB Executive Order Number. In addition, Clean Fuel Vehicle standards will now be displayed on the certificate.

Title: LD: 4b: Add Portable Fuel Container and other new industries to Doc Upload screen (CR # CDX00079681)

Description: Add the new industries 'Portable Fuel Container', 'ICI: Light-Duty', 'Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified)', and 'Nonroad / Stationary Spark-Ignited Evaporative Component' to the list of industries in the Doc

Upload screen. Actually only the Industry Categories 'Portable Fuel Container' and 'Component' should be added to the list of industries, since it is actually a list of industry categories.

- **Benefit:** The Industry categories 'Portable Fuel Container' and 'Component' were added to the list of industries in the Document Upload screen.

Title: MFR Search: Default Search Produces an Error (CR # CDX00079894)

Description: One can't perform a manufacturer criteria search due to a bug in the query that the system produces.

After a little analysis, the bug is in the way that the query searches for countries. It first finds MFR Addresses that have the proper country (and if you select 'All', then it finds every address). It then takes all of these addresses and searches for manufacturers with those addresses. This list of addresses is so big (over 1000) that Oracle can't handle the size of the query.

- **Benefit:** Previously there was a bug in the manufacturer search page that caused a system error. This bug has been fixed.

Title: LD: 4b: BE: CTDI US06 2-bag lab workaround (CR # CDX00080072)

Description: LOD has added a new test procedure (89) which is essentially the same as our test procedure 90 with the exception that they will be collecting emissions in two bags instead of one. We do not want to add this new test procedure because mfrs have already used 90 for 2-bag tests. So, our solution to this problem is:

1. Add a 2-digit integer 'Number of Bags' field to the back-end CTDI screen-EPA Decision tab at the test procedure/fuel type level. It will be optional except when the associated test procedure = 90. Store it in the database for the test procedure/fuel type chosen record.
2. In the Stored Procedure that writes data to the Star tables: when the test procedure chosen for testing = 90 *and* the 'Number of Bags' = 2, write '89' to the TESTREQ_TRANS_VERIFY in the TEST_PROCEDURE_CODE field instead of 90. Test procedure 90 should still be used to find the matching manufacturer test (if it exists). TEST_PROCEDURE_MFR_CODE can remain as 90.

This test procedure code 89 will *not* need to be added to either of our test procedure tables. When LOD sends their test results back to Verify, they will be using test procedure 90, so everything will match up again in our database.

- **Benefit:** A modification was made to accommodate LOD's new test procedure 89. A 'Number of Bags' field was added to the backend CTDI 'EPA Decision' tab for every test procedure/fuel type combo that is chosen for testing. This field will be optional except when the associated test procedure is 90. The stored procedure that writes data to the LOD Star tables was modified so that when the test procedure chosen for testing was 90 and the 'Number of Bags' was 2, the value '89' would be written to the TESTREQ_TRANS_VERIFY in the TEST_PROCEDURE_CODE field instead of 90.

Title: HD: Engine Model and Engine Code (CR # CDX00080541)

Description: Engine Model should be 1-15 characters.

Engine Code should be 1-10 characters.

Right now, Engine Model must be exactly 15 characters and Engine Code must be exactly 10.

- **Benefit:** For the HDIU schema, the Engine Model was modified to allow 1 to 15 characters, instead of requiring exactly 15 characters. The Engine Code was modified to allow 1 to 10 characters, instead of requiring exactly 10 characters.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.5

CR #	Title	Description	Project/Industry
CDX00075269	LD: 4b - Schema - Remove Test Procedures 80-83	These were temporary test procedures created for CFEIS. They should not exist in Verify. Christi asked that they be removed from the system at a meeting on 9/18/08. They have been removed from the Frontend but not the schemas or Backend.	Verify – Light Duty
CDX00077507	LD: 4b: FE: Submission Subject/Text	Is it possible to include the submission status in the submission e-mail message subject, text, or on the status page so users do not have to click 3 times and open the submission processing report file to find out if it was accepted or rejected? Similar to Mfr Info submission subject. Also, the current subject is "Vehicle Information Received" but shouldn't it be "Vehicle Information Processed"?	Verify – Light Duty
CDX00077508	LD: FE: VI : Submission file name text in save message	Instead of waiting to be prompted to save the submitted XML file, I clicked on the link to "save" the file that is on the submit screen. The file name of the file included nonvalidated even though it had been validated	Verify – Light Duty
CDX00077509	LD: 4b: BE: CTDI: Test Procedure and Fuel Type Pull-Downs not fully visible in CTDI screen	The pull-down arrows are not fully visible for the test procedure and fuel type pull-downs	Verify – Light Duty
CDX00077522	LD: 4b: BR: ShiftSched (front end): 'Shift Time' can be entered out of order.	Need a business rule to reject transaction when shift time of shift point x > shift time of shift point x + 1 (or greater). Example: if shift point 11's shift time=800, then shift point 12 must be greater than 800.	Verify – Light Duty

<p>CDX00077534</p>	<p>LD: 4b: BE: Add Particulate Testing Indicator to BE: CTDI 'EPA Decision' tab</p>	<p>"1. Add a 'Particulate Testing' field to the BE: CTDI 'EPA Decision' tab for every test procedure/fuel type combo that is chosen for testing ('PM Testing' if space is limited). Ideally, the software would default the value assigned to be 'N' if the fuel category was not diesel (<> 'D') for the fuel type chosen (currently: fuel types <> 9 or 19), or to 'Y' if the fuel type was a diesel fuel category. The user would be able to override defaults. 2. Create a new table attribute so this value could be stored at the 'test procedure/fuel type combination chosen'-level in the database. Name it PARTICULATE_TESTING_IND (or the like). 3. Modify the LOD data transfer Stored Procedure to write the value to a new field at the bottom of the TESTREQ_TRANS table called 'PARTICULATE' (it already exists)."</p>	<p>Verify – Light Duty</p>
<p>CDX00077539</p>	<p>Email from Verify regarding Verify Test Results Report</p>	<p>When searching in Verify's document module for the referenced Verify Test Results by the File Name provided in the email, the search results included other documents that had other File Names, not just the one I typed in the search criteria. In addition, the document that had the identical File Name was at the bottom of the search results instead of at the top. Therefore, EPA would like to add a link in the email that is sent to CISD when LOD test reports goes out.</p>	<p>Verify – Light Duty</p>
<p>CDX00077543</p>	<p>LD: 4b: FE: LOD Dataset Report/View Problem</p>	<p>Allow EPA (and LOD) to request reports for Test Info. Allow EPA to request reports for any dataset. Have the link that goes to CISD</p>	<p>Verify – Light Duty</p>

		<p>when LOD submits a Test point to the Test Info page for that test (not the document in the document module)</p> <p>Have the results of the Test Info Search have a link to the XML in the doc module (Verify Test Report), the LOD PDF (LOD Test Report)</p>	
CDX00077544	LD: 4b: BE: Scheduled EPA Confirmatory Tests	The default sort order should have the closest test dates at the top of the list and the furthest away in the future at the bottom of the list	Verify – Light Duty
CDX00077552	LD: 4b: FE: Incorrect order of Shift Schedule data	Shift points in reports (submission processing and requested dataset) should be ordered according to Shift Point number	Verify – Light Duty
CDX00077610	LD: Decision Info Workflow: Allow Retests to be retested from "Retest Scheduled" state	EPA would like to change the CFT Decision Info workflow and allow Retests to be requested from the Retest Scheduled state.	Verify – Light Duty
CDX00078427	LD: 4b: Cert: Test Group Schema :Durability Group Equivalency Factor change to 200 characters	Currently this is a number field. EPA would like it changed to a text of 200 characters. This will allow mfrs to enter as many eq factors as needed (sometimes up to 4) as well as a short label for each factor so we know which is which.	Verify – Light Duty
CDX00078546	LD: 4b: BE: TI-BR7 Test Lab/Alternate Manufacturer Business Rule needs to be disabled	<p>Remove the Business Rule that checks that a manufacturer is an Alternate Manufacturer before allowing them to use the Test Labs of another manufacturer.</p> <p>Christi Poirier indicated that this business rule shouldn't be there at our Working Group meeting on 12/03/</p>	Verify – Light Duty

CDX00078548	LD: 4b: CERT: Test Group schema change needed for Projected Sales Field	In TG, When a mfr clicks both FA and CA for Certification Region Code they are then expected to enter a number 1 or greater for the Projected Federal Sales and for the Projected California Sales due the the min range being currently set to 1. For Projected California Sales the requirements say the min should be 0. This needs to be changed in the schema.	Verify – Light Duty
CDX00078668	Verify LD 4b 3.1 - LOD Test Information submission correction with incorrect test number causes null pointer exception	Submission of a Test Information file with Process code set to 'C' and with a test number not in the system will cause a null pointer exception.	Verify – Light Duty
CDX00078685	LD: 4b: BR: Updates needed for Fuel Economy business rules	Updates are needed for the Fuel Economy business rules. See attached file.	Verify – Light Duty
CDX00078740	LD: 4b: CERT: Add default text to conditional certificates	The default conditional text is not showing up on Federal conditional certificates. The text should read: Based on the request of the manufacturer, EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1835(d).	Verify – Light Duty
CDX00078741	LD: 4b: FE: Test Group pulleddowns for exhaust and evap standards need text updated	The Exhaust and Evap Standard pulldowns on the Test Group screen need to have the descriptions updated. See attached files.	Verify – Light Duty
CDX00078840	LD: 4b: BE: Test Info Details screen missing 'Diesel Adjustment	The 'Diesel Adjustment Factor Usage Indicator' (TI-18.5) does not appear in the Test Info Details on the back end. LOD noticed it was missing after they entered tests for	Verify – Light Duty

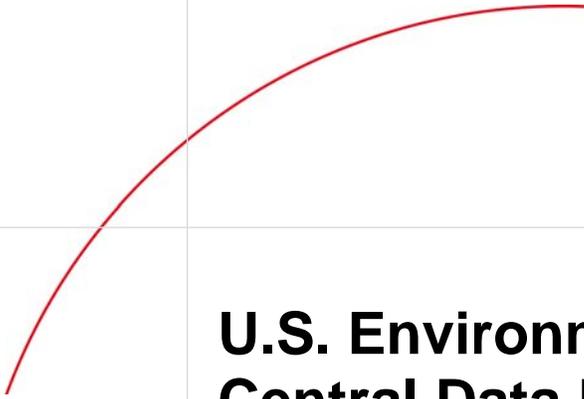
	Factor Usage Indicator'	a diesel -fueled Audi. (e.g. Test #9ADX91000018). It should go in the 'Test Particulars' section after the Fuel Batch ID where there is now currently a gap. It can be shortened to 'Diesel Adj. Factor Usage', if space is tight.	
CDX00078868	LD: 4b: BR: Evap tests not matching correctly with evap standards in Test Group with multiple evap families	If a Test Group has multiple evap families, each with their own standards and tests, the tests from one evap family are incorrectly being compared with the standards of the other evap families. This can result in failed cert levels, which are not listed in the CSI report.	Verify – Light Duty
CDX00079034	LD: Cert: Evap Useful Life field showing N/A on certs for LPG, CNG and LNG	For the "Full Useful Life Miles: Evaporative/Refueling Emissions:" field on the certificate we recently (12/5) made a change that would compute that value differently for Ethanol and Methanol vehicles. As part of that change, we introduced a bug that will cause any vehicles that use CNG, LPG or LNG to list N/A in that field instead of the appropriate value.	Verify – Light Duty
CDX00079193	LD: HDIU: Include the Original Document Name in the subject and body of Inbox messages	Include the Original Document Name in the subject and body of Inbox messages for HDIU. This was originally a part of CR CDX00077480 but it failed testing.	Verify – Heavy Duty
CDX00079303	LD: 4b: Do not reject TI submissions with 0.1 fuel economy difference	TI submissions are being rejected when there is a 0.1 difference between the calculated fuel economy level and the 'MFR FE' value in the submission. These submissions should be accepted, but a warning should be generated.	Verify – Light Duty
CDX00079568	LD: 4b: Problem with document	For the fix for CR CDX00077480, the allowed document name size was increased from 50 to 100	Verify – Light Duty

	<p>name size over 50 characters</p>	<p>characters. However, when a document with a name longer than 50 characters was submitted, the following error would result:</p> <p>The document metadata name AECD_Pulse width fuel injection for engine speed control_T1.pdf does not match the name specified in the document submission</p>	
<p>CDX00079580</p>	<p>LD: 4b: Certificate not displaying right evap standards, CARB exec order, or clean fuel vehicle standards</p>	<p>Steve Healy reported these problems with certificates: For vehicles certified to Federal LEV-II Evap the certificate is displaying two standards. The certificates that we have seen so far with this are: Nissan ANSXV03.8GBA, BMW 9BMXV01.6LER, 9BMWV01.6ULR, 9BMXV04.4N63.</p> <p>The certificates are displaying "Applicable Evaporative/Refueling Standards: Federal LEV-II Evap, Federal Tier 2 Evap". They should not display "Federal Tier 2 Evap".</p> <p>3) The CARB Executive Order # is not displayed on the certificate for Nissan 9NSXV02.082A. This is a California only certificate and should display the CARB EO #. I have added the EO # to the notes section for this certificate.</p> <p>4) Clean fuel vehicle standards are not displayed on the certificate for Honda 9HNXV00.0AET. Honda has indicated in the CSI that this vehicle meets CFV, ZEV and ILEV.</p>	<p>Verify – Light Duty</p>

<p>CDX00079681</p>	<p>LD: 4b: Add Portable Fuel Container and other new industries to Doc Upload screen</p>	<p>Add the new industries 'Portable Fuel Container', 'ICI: Light-Duty', 'Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified)', and 'Nonroad / Stationary Spark-Ignited Evaporative Component' to the list of industries in the Doc Upload screen. Actually only the Industry Categories 'Portable Fuel Container' and 'Component' should be added to the list of industries, since it is actually a list of industry categories.</p>	<p>Verify – Light Duty</p>
<p>CDX00079894</p>	<p>MFR Search: Default Search Produces an Error</p>	<p>One can't perform a manufacturer criteria search due to a bug in the query that the system produces.</p> <p>After a little analysis, the bug is in the way that the query searches for countries. It first finds MFR Addresses that have the proper country (and if you select 'All', then it finds every address). It then takes all of these addresses and searches for manufacturers with those addresses. This list of addresses is so big (over 1000) that Oracle can't handle the size of the query.</p>	<p>Verify – Light Duty</p>
<p>CDX00080072</p>	<p>LD: 4b: BE: CTDI US06 2-bag lab workaround</p>	<p>LOD has added a new test procedure (89) which is essentially the same as our test procedure 90 with the exception that they will be collecting emissions in two bags instead of one. We don't want to add this new test procedure because mfrs have already used 90 for 2-bag tests. So, our solution to this problem is:</p> <ol style="list-style-type: none"> 1. Add a 2-digit integer 'Number of Bags' field to the back-end CTDI screen-EPA Decision tab at the test procedure/fuel type level. It will be optional except when the 	<p>Verify – Light Duty</p>

		<p>associated test procedure = 90. Store it in the database for the test procedure/fuel type chosen record.</p> <p>2. In the Stored Procedure that writes data to the Star tables: when the test procedure chosen for testing = 90 *and* the 'Number of Bags' = 2, write '89' to the TESTREQ_TRANS_VERIFY in the TEST_PROCEDURE_CODE field instead of 90. Test procedure 90 should still be used to find the matching manufacturer test (if it exists). TEST_PROCEDURE_MFR_CODE can remain as 90.</p> <p>This test procedure code 89 will *not* need to be added to either of our test procedure tables. When LOD sends their test results back to Verify they will be using test procedure 90, so everything will match up again in our database.</p>	
CDX00080259	LD: 4b: FE: In Doc Upload screen there are two options for CAFE 2008&2009 Model Year Data	In the Document Upload screen there are 2 options in the Compliance Document Type list for CAFE 2008&2009 Model Year Data. The first one works, but selecting the second will cause an error. The second one shouldn't be there and needs to be removed	Verify – Light Duty
CDX00080458	LD: 4b: BR: Modify FE Label Business Rule so model year of test doesn't need to be same as model year of submission	FE Label Business Rule GL-BR35 needs to be simplified to remove the requirement that the model year of the test must match the model year of the FE Label submission.	Verify – Light Duty
CDX00080541	HD: Engine Model and Engine Code	Engine Model should be 1-15 characters. Engine Code should be 1-10 characters.	Verify – Heavy Duty

		Right now, Engine Model must be exactly 15 characters and Engine Code must be exactly 10.	
--	--	---	--



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Emergency Maintenance Release Software Release Notes

Release 4.b.4.3

Back-end

January 30, 2009

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4b: Disable TG-Br-16 for LDVT Vehicle class in Test Group and business rule for 0.1 diff in MFR FE
(CR # CDX00081445)

Description: Disable the business rule that disallows LDVT Vehicle class in Test Group exhaust standards; also disable the calculation business rule that rejects submission if the MFR FE is not within 0.1 of Verify calculated value.

- **Benefit:** The Test Group business rule that disallows LDVT Vehicle class in Test Group exhaust standards has been disabled to allow mfrs to submit LDVT data. There is also a calculation business rule that rejects Test Info with MFR FE greater than 0.1 difference than the Verify calculated value. This rule has been temporarily disabled. It will be replaced by a warning in the next release.

3.2 New features and the fixes for EPA

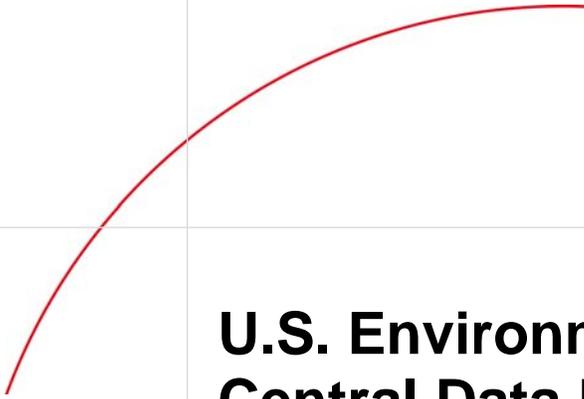
There are no new features or fixes specifically for EPA.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.4.1

CR #	Title	Description	Project/Industry
CDX00081445	LD: 4b: Disable TG-Br-16 for LDVT Vehicle class in Test Group and business rule for 0.1 diff in MFR FE	Disable the the business rule that disallows LDVT Vehicle class in Test Group exhaust standards; also disable the calculation business rule that rejects submission if the MFR FE is not within 0.1 of Verify calculated value	Verify – Light Duty

Abbreviations and Acronyms

CDX	Central Data Exchange
CERT	Certification Test
CFT	Confirmatory Test
CIV	Civil (Group)
CR	Change Request
CSC	Computer Sciences Corporation
DBDD	Database Design Document



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Emergency Maintenance Release Software Release Notes

Release 4.b.4.2

Back-end

January 23, 2009

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4b: Mileage adjustment for AnalyticallyDerivedIndicator in FE calculations (CR # CDX00080646)

Description: Currently if the system miles are less than 6200 than no adjustment is done for mileage. We also do not adjust for mileage if the "AnalyticallyDerivedIndicator" is No. If the "AnalyticallyDerivedIndicator" is Yes and the mileage is greater than (or equal to) 6200 we use this equation to adjust the fuel economy.

The problem is that Verify needs to adjust for mileage if the "AnalyticallyDerivedIndicator" is No -- not Yes.

- **Benefit:** The system will now properly adjust the Fuel Economy value calculated for submitted tests based on the mileage (if it is above 6200). This will then be rounded and stored in the Verify system. It will be reported back to the manufacturers in their Submission Processing Report (as happens currently).

3.2 New features and the fixes for EPA

There are no new features or fixes specifically for EPA.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.4.1

CR #	Title	Description	Project/Industry
80646	LD: 4b: Mileage adjustment for AnalyticallyDerivedIndicator in FE calculations	<p>Currently if the system miles are less than 6200 than no adjustment is done for mileage. We also do not adjust for mileage if the "AnalyticallyDerivedIndicator" is No. If the "AnalyticallyDerivedIndicator" is Yes and the mileage is greater than (or equal to) 6200 we use this equation to adjust the fuel economy.</p> <p>The problem is that Verify needs to adjust for mileage if the "AnalyticallyDerivedIndicator" is No -- not Yes.</p>	Verify – Light Duty

Abbreviations and Acronyms



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Emergency Maintenance Release Software Release Notes

Release 4.b.4.1

Back-end

January 13, 2009

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4b: Disable Business Rule GL-BR35

(CR # CDX00080552)

Description: GL-BR35 has a bug in it that will be fixed in a maintenance release. As a stop-gap, we would like to disable the rule completely. This will allow manufacturers to submit Fuel Economy data before the next maintenance release.

- **Benefit:** The FE Label business rule that prevented manufacturers from using test data for a different model year than the FE Label submission has been temporarily disabled. However, manufacturers should be advised that disabling this business rule has also removed the check that is made to determine if the submitted test number is valid. If a manufacturer enters an invalid test number, they will not receive a processing report but instead will get the generic system error message.

Title: LD: 4b: LDFE Label is storing wrong manufacturer division (CR # CDX00080417)

Description: LDFE Label is not always storing the manufacturing division that was submitted in the dataset - it is sometimes storing the manufacturer division for a different manufacturer..

- **Benefit:** A bug in the FE Label submission process was fixed. Previously, an incorrect manufacturer division would sometimes be stored.

3.2 New features and the fixes for EPA

There are no new features or fixes specifically for EPA.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.4.1

CR #	Title	Description	Project/Industry
80552	LD: 4b: Disable Business Rule GL-BR35	GL-BR35 has a bug in it that will be fixed in a maintenance release. As a stop-gap, we would like to disable the rule completely. This will allow manufacturers to submit Fuel Economy data before the next maintenance release.	Verify – Light Duty
80417	LD: 4b: LDFE Label is storing wrong manufacturer division	LDFE Label is not always storing the manufacturing division that was submitted in the dataset - it is sometimes storing the manufacturer division for a different manufacturer.	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.4

Front-end and Back-end

December 19, 2008

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4B: New Industry: Portable Fuel Container (CR #57444)

Description: Add a new industry 'Portable Fuel Container' to the manufacturer information (and manufacturer registration) modules. Also include new industries for "ICI: Light-Duty", Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified), and "Nonroad / Stationary Spark-Ignited Evaporative Component.

- **Benefit:** Added new industries "Portable Fuel Container", "ICI: Light-Duty", "Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified)" and "Nonroad / Stationary Spark-Ignited Evaporative Component" to manufacturer information.

Title: LD: 4B: TI: BRs: Duplicate Test Result Names should not be allowed for same test (CR #77128)

Description: A business rule is needed to prohibit entry of duplicate test result names for the same test.

- **Benefit:** This is a new business rule that will reject a Test Information dataset if it has two Test Results with the same name.

Title: LD: 4B: Add New Document Type (CR #77460)

Description: Add the Document Type of "Alternative Fuel Conversion Data Submission Form (>3 years and >50,000 miles)" to the Front-end and Back-end document module. Also, add new Compliance Document Type of "Model Year 2008&2009 CAFE Data File".

- **Benefit:** Added new Compliance Document Types "Alternative Fuel Conversion Data Submission Form (>3 years and >50,000 miles)" and "Model Year 2008&2009 CAFE Data File".

Title: LD: 4B: Document Module Changes to support HDIU (CR #77480)

Description: Increase the allowed size of Original Document Name to 100 characters. Include the Original Document Name in the subject and body of Inbox messages.

- **Benefit:** Increased the allowed size of the "Document Path and File Name" and "Path and File Name of Same Document in Alternate Format" in the Document Upload screen from 50 characters to 100 characters.

Title: LD: 4B: Only send one inbox message per submission(CR #77483)

Description: Right now, HDIU users get an Inbox message when they submit a file and another when the backend receives it. They should only get the second.

- **Benefit:** HDIU users will now only get one Inbox message when they submit a file. Previously they would get one message from CDX when they submitted the file and another from Verify after it was received by the backend. They should now only get the second message.

Title: LD: 4B: HDIU Schema Changes for November '08 (CR #77486)

Description: Mostly making fields optional or changing the format, however, renaming a few. Synchronizing the data requirements document.

- **Benefit:** This involved changes to the HDIU schema, mostly making fields optional or changing the format.

Title: LD: 4B: FE: VI Review page (CR #77497)

Description: The comments should be formatted so the carriage returns are displayed properly.

- **Benefit:** Fixed the formatting of comments on the Vehicle Information review page so that the carriage returns are displayed properly.

Title: LD: 4B: FE: Test Info Help Button (CR #77499)

Description: I can click on the white space near the top of the page and get the help page to come up.

- **Benefit:** This fixed a bug on the Test Information screen that would cause the Help page to come up if the white space near the top of the page was clicked.

Title: LD: 4B: Business Rules: Fuel Props Corrections to Fuel Props with Tests should be rejected (CR #77511)

Description: If a correction is submitted to a Fuel Properties dataset and that dataset is already referenced by an active Test Info dataset then it should be rejected.

- **Benefit:** This is a new business rule that will reject a correction to a Fuel Properties dataset if it is already referenced by a Test Information dataset.

Title: LD: 4B: FE: Add additional field to FE Label Subconfiguration (CR #77683)

Description: On the "Base Level Information" tab, in the "Subconfiguration Info" box, a new table needs to be added above the "Test Info" table that is called "Subconfiguration Sales Information". This table will include two of the data elements that are already in the Subconfiguration box (Subconfiguration Projected Sales and Test Group) plus three new data elements (Mfr Code, Division Code, Carline Code). This will involve changing the xml schema and database tables. There are also some changes requested for some of the field labels on the submission screen.

- **Benefit:** The FE Label schema, screens, and database tables were modified to allow manufacturers to specify Subconfiguration Projected Sales information by different Mfr Code, Division Code, Carline Code, and Test Group combinations.

Title: LD: 4B: FE: SS: The "Review and Submit" button on Shift Schedule Save2 page links to wrong screen (CR #77706)

Description: The 'Review and Submit' button on the Shift Schedule Save2 page links to Decision Info instead of Shift Schedule

- **Benefit:** This fixed a bug in the Shift Schedule "Save" page. Previously the "Review and Submit" button on the second Save page would link back to a blank Decision Info page instead of the Shift Schedule page.

Title: LD: 4B: Changes to CSI report (CR #77733)

Description: Make the following changes to the CSI Report:

- 1) In the standards sections, attempt to line up the values under the headings better. Currently, it appears as though the headings are left justified and the values are centered.
- 2) In both the Models section and the standards section, the Cert Region Code should be displayed as either "CA" or "Fed". Currently, this is using the database code (CA or FA), so a system will have to be devised for transforming the code into an "abbreviated description" (as opposed to the regular description).
- 3) Standards information should never be displayed on a page without the associated Test displayed as a (2nd) header at the top of the page (underneath the report header). If this causes a group of standards to have to be broken into displaying on multiple pages that is fine as long as the test is displayed on each of those pages.
 - **Benefit:** Changes were made to the CSI report to improve readability. This included lining up values under headings better, displaying the Certification Region Code as 'Fed' or 'CA', and changing the pagination so that standards information is always displayed on the same page with its associated Test information.

Title: LD: 4B: FE: Shift schedule breadcrumbs incorrect on Success page (CR #77787)**Description:** The breadcrumbs on the Shift Schedule success page are for decision info instead of Shift Schedule.

- **Benefit:** This fixes a bug in the Shift Schedule screen. Previously, the breadcrumbs on the Shift Schedule success page were for Decision Info instead of Shift Schedule.

Title: LD: 4B: FE: Supplemental Info – Need better error message for Emission Standard Value (CR #77797)**Description:** The Error message should state what the format for Emission Standard Value is.

- **Benefit:** The validation error message for Emission Standard values on the Test Group and Supplemental Info pages has been improved. Previously, it was only stating, "The Emission Standard Value is in invalid format". The message now displays what the valid format should be.

Title: LD: 4B: FE: Shift Schedule – "Return to Confirmatory Test Home Page" button on success page does not work (CR #77798)**Description:** The issue is that the "Return to Confirmatory Test Home Page" button on the success screen after submission does not work. Get the following error message: Invalid path /lightduty/confctest/home was requested

- **Benefit:** This fixes a bug in the Shift Schedule screen. Previously, the "Return to Confirmatory Test Home Page" button on the success screen did not work.

Title: LD: 4B: FE: CTDI – Change label name to Vehicle Model Name (Carline) (CR #77800)

Description: Add '(Carline)' to the Vehicle Model Name label on the Decision Info screen.

- **Benefit:** This adds the text '(Carline)' to the Vehicle Model Name label on the Decision Information screen.

Title: LD: 4B: FE: Test Group: Problem with Engine Configuration Number (CR #77801)

Description: On the Test Group Dataset Submission, Engine Configuration tab, there is no box to enter engine configuration number, and when I click on Review and Submit, an error is received: Engine Configuration Number is a required field.

Steps to replicate this error:

Enter Test Group New Dataset

Click on Engine configuration, you see 1 as default value

Click on Save Form. Click on Save. Click Cancel

Now click Review and Submit. The default value for Engine configuration vanishes

- **Benefit:** This fixes a bug on the Test Group screen. Previously there was a problem with the test box for the Engine Configuration Number not being visible under certain conditions.

Title: LD: 4B: BR: Cert Request – Business rules require answers to questions that do not apply to electric vehicles (CR #77859)

Description: Some of the questions on the Certificate Request Screen do not apply to electric vehicles, but they still must be answered 'Yes' or the request will be rejected by the business rules as they cannot be left blank or answered 'No'.

- **Benefit:** The 'Yes' radio button for two of the questions on the Certificate Request Screen involving OBD and ORVR were modified to display 'Yes or N/A' to avoid any confusion involving requesting a certificate for an electric vehicle.

Title: LD: 4B: CSI Report is not showing EGR type (CR #78357)

Description: The CSI Report is not showing the EGR type data submitted by the manufacturer.

- **Benefit:** This fixed a bug in the CSI report in which the EGR type submitted by the manufacturer was not being displayed.

Title: LD: 4B: BR TG-BR76 not checking if Air Aspiration Device Configuration is null or blank (CR #78360)

Description: Business Rule TG-BR76 is rejecting submissions if the Air Aspiration Device Configuration (TG-49) is null or blank and the Number of Air Aspiration Devices (TG-48) is zero. This business rule should only be checking the Number of Air Aspiration Devices if the Air Aspiration Device Configuration is not null AND not blank AND not 'N'.

Implemented fix to TestGroupRules.drl and modified appropriate unit test. Changes passed unit testing.

- **Benefit:** This fixed a bug in the Test Group business rules. Previously submissions were being rejected if the Air Aspiration Device Configuration (TG-

49) was null or blank and the Number of Air Aspiration Devices (TG-48) was 0. This problem has now been fixed.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.4

CR #	Title	Description	Project/Industry
57444	LD: 4B: New Industry: Portable Fuel Container (CR #57444)	Add a new industry 'Portable Fuel Container' to the manufacturer information (and manufacturer registration) modules. Also include new industries for "ICI: Light-Duty", Alternative Fuel Converter (Light-Duty/Heavy-Duty Chassis Certified), and "Nonroad / Stationary Spark-Ignited Evaporative Component.	Verify – Light Duty
77051	LD: 4B: LOD Test Info should look for requested tests that are active and inactive	When looking for the requested test to match to a submitted LOD Test the system should consider inactive tests if there are no applicable active tests.	Verify – Light Duty
77128	LD: 4B: LD: 4B: BE: Evap standards are needed in Consolidated List of Standards in Test Group Screen	A business rule is needed to prohibit entry of duplicate test result names for the same test.	Verify – Light Duty
77129	LD: 4B: Business Rules: Test Group: TG-BR92 fires incorrectly when Test Group and Tests have different model years	The Decision Information Queue back-end webpage should be sorted in descending order (newest to oldest).	Verify – Light Duty
77460	Add new document type	Add the Document Type of "Alternative Fuel Conversion Data Submission Form (>3 years and >50,000 miles)" to the Front-end and Back-end document module. Also, add new Compliance Document Type of "Model Year 2008&2009 CAFE Data File".	Verify – Light Duty
77480	Document Module Changes to Support HDIU	Increase the allowed size of Original Document Name to 100 characters. Include the Original Document Name in the subject and body of Inbox messages.	Verify – Light Duty

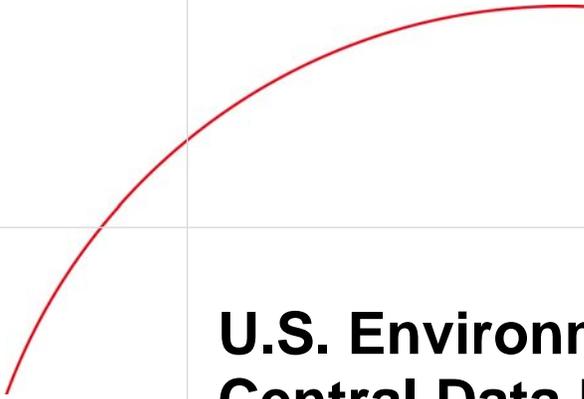
77483	Only send one inbox message per submission	Right now, HDIU users get an Inbox message when they submit a file and another when the backend receives it. They should only get the second.	Verify – Light Duty
77486	HDIU schema changes for November '08	Mostly making fields optional or changing the format, however, renaming a few. Synchronizing the data requirements document.	Verify – Light Duty
77497	FE: VI Review page	The comments should be formatted so the carriage returns are displayed properly.	Verify – Light Duty
77499	Front-end – Test Info Help Button	I can click on the white space near the top of the page and get the help page to come up.	Verify – Light Duty
77511	BR: Fuel Props Corrections to Fuel Props with Tests should be rejected	If a correction is submitted to a Fuel Properties dataset and that dataset is already referenced by an active Test Info dataset then it should be rejected.	Verify – Light Duty
77549	LOD Data Transfer: Write a note into the comments field if there is no MFT Test Info	In the cases where there is no matching Mfr Test for a Test Procedure selected by EPA then the system should put a note into the Test Comments field that says, "No MFR results for this test procedure/fuel type combination."	Verify – Light Duty
77585	Fuel	When selecting "Gasoline", it only returns seven records but should have returned 11. When selecting "Battery-Electric", no records were returned but one should have been.	Verify – Light Duty
77587	Request for additional status	No records are returned when selecting either "Yes" or "No" for "Request For Additional Status". Selecting "No" should return any records that have not been changed to "Yes" even if they are actually Null.	Verify – Light Duty
77589	Error in searching by configuration	Received error message every time I tried to search using configuration number. The error simply says "There has been a system error. Please contact: Verify Help Desk (888) 890-1995 verifyhelp@csc.com "	Verify – Light Duty

77590	Error in searching by running change number	Received error message every time I tried to search using the running change number. The error simply says, "There has been a system error. Please contact: Verify Help Desk (888) 890-1995 verifyhelp@csc.com "	Verify – Light Duty
77594	ATD Precision Metals type incorrect	In After Treatment Device section, ATD Precious Metal Type is displaying the value from "ATD Type".	Verify – Light Duty
77683	LD:4b: FE: Add additional fields to FE Label Subconfiguration	On the "Base Level Information" tab, in the "Subconfiguration Info" box, a new table needs to be added above the "Test Info" table that is called "Subconfiguration Sales Information". This table will include two of the data elements that are already in the Subconfiguration box (Subconfiguration Projected Sales and Test Group) plus three new data elements (Mfr Code, Division Code, Carline Code). This will involve changing the xml schema and database tables. There are also some changes requested for some of the field labels on the submission screen.	Verify – Light Duty
77706	LD:4b: FE: SS: The "Review and Submit" button on shift schedule Save2page links to wrong screen	The 'Review and Submit' button on the Shift Schedule Save2 page links to Decision Info instead of Shift Schedule.	Verify – Light Duty
77733	LD:4b: Changes to CSI Report	Make the following changes to the CSI Report: 1) In the standards sections, attempt to line up the values under the headings better. Currently, it appears as though the headings are left justified and the values are centered. 2) In both the Models section and the standards section, the Cert Region Code should be displayed as either "CA" or "Fed". Currently, this is using the database code (CA or FA), so a system will have to be devised for transforming the code into an "abbreviated description" (as opposed	Verify – Light Duty

		to the regular description). 3) Standards information should never be displayed on a page without the associated Test displayed as a (2nd) header at the top of the page (underneath the report header). If this causes a group of standards to have to be broken into displaying on multiple pages that is fine as long as the test is displayed on each of those pages.	
77779	LD:4B: BE: CTDI: "View Related Tests" button does not always display the tests for the correct vehicle	The "View Related Tests" button on Confirmatory Test Decision Info does not always display the tests for the correct vehicle.	Verify – Light Duty
77787	LD:4b:FE: Shift schedule bread crumbs incorrect on success page	The breadcrumbs on the Shift Schedule success page are for decision info instead of Shift Schedule.	Verify – Light Duty
77797	LD: 4B: FE: Supplemental Info – Need better error message for Emission Standard Value	The Error message should state what the format for Emission Standard Value is.	Verify – Light Duty
77798	LD: 4B: FE: Shift Schedule – "Return to Confirmatory Test Home Page" button on success page does not work.	The issue is that the "Return to Confirmatory Test Home Page" button on the success screen after submission does not work. Get the following error message: Invalid path /lightduty/confctest/home was requested.	Verify – Light Duty
77800	LD: 4B: FE: CTDI – Change label name to Vehicle Model Name (Carline)	Add '(Carline)' to the Vehicle Model Name label on the Decision Info screen.	Verify – Light Duty
77801	LD: 4B: FE: Test Group: Problem with Engine Configuration Number	On the Test Group Dataset Submission, Engine Configuration tab, there is no box to enter engine configuration number, and when I click on Review and Submit, an error is received: Engine Configuration Number is a required field.	Verify – Light Duty

		<p>Steps to replicate this error: Enter Test Group New Dataset Click on Engine configuration, you see 1 as default value Click on Save Form. Click on Save. Click Cancel Now click Review and Submit. The default value for Engine configuration vanishes.</p>	
77816	LD: 4B: BE: RFC Queue – the CERT details column should link directly to the tab of the CSI	Request For Certificate Queue - the Cert Details column should link directly to that tab of the CSI	Verify – Light Duty
77819	LD: 4B: BE: Add links to home page	<p>Make links to the following areas on the home page:</p> <ol style="list-style-type: none"> 1. All the Mfr links from the industry specific pages. 2. Certificate Signing Queue 3. Certificate Log 	Verify – Light Duty
77821	LD: 4B: BE: Certificate Search – List of Signer Names in pull-down	<p>No certificates were returned when selecting any of the names in the Signer Name pull-down however when selecting "All", several certificate records are returned. Only Signer Names that actually have certificates in the database should be included in the pull-down. Names of people that have left EPA or CISD should not be in the pull-down list unless there are certificates that they signed. (i.e.- Dan Harrison, Gay MacGregor, Jim Blubaugh, Lori Stewart, Merrylin Zaw-Mon should not be in the list unless there are LD certificates that will show up in search results when their names are selected.)</p>	Verify – Light Duty
77859	LD: 4B: BR: Cert Request – Business rules require answers to questions that do not apply to electric vehicles	Some of the questions on the Certificate Request Screen do not apply to electric vehicles, but they still must be answered 'Yes' or the request will be rejected by the business rules as they cannot be left blank or	Verify – Light Duty

		answered 'No'.	
78357	LD: 4B: CSI Report is not showing EGR type	The CSI Report is not showing the EGR type data submitted by the manufacturer.	Verify – Light Duty
78360	LD: 4B: BR TG-BR76 not checking if Air Aspiration Device Configuration is null or blank	Business Rule TG-BR76 is rejecting submissions if the Air Aspiration Device Configuration (TG-49) is null or blank and the Number of Air Aspiration Devices (TG-48) is zero. This business rule should only be checking the Number of Air Aspiration Devices if the Air Aspiration Device Configuration is not null AND not blank AND not 'N'. Implemented fix to TestGroupRules.drl and modified appropriate unit test. Changes passed unit testing.	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Emergency Maintenance Release Software Release Notes

Release 4.b.3.1

Back-end

December 05, 2008

Prepared for:

U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4B: Business Rules: Certification: Hole in submission validation (CR #77055)

Description: There is a hole in the Test Group business rules. If you select 'New' for the Process Code, but select 'Correction' for the CSI Type field, then you will pass the business rules and the submission process will not set the old dataset to inactive. When this happens, it makes the data invalid in the database and neither the old nor the new submission can be processed by CISD.

Modified testGroupRules.drl to resolve issue and wrote test cases to confirm in TestGroupSubmissionTest.java. Committed Changes to both root and emergency branch release 4b.3.1.

- **Benefit:** A bug in the Test Group submission process was fixed. Previously, a manufacturer could submit a Test Group with a Process Code of "New" and a CSI Type of "Update for Correction" or "Update for Running Change". This resulted in invalid data in the database because the old dataset would not be set to inactive. There is now a business rule to reject a Test Group with a Process Code of "New" and a CSI Type of "Update for Correction" or "Update for Running Change".

Title: LD: 4B: BE: DB: FUEL_CONVERT_NEW_FUEL field too small in LD_CERT_INFO (CR #77229)

Description: Receive oracle error FUEL_CONVERT_NEW_FUEL field in LD_CERT_INFO is too small when submitting cert request for test group that has two fuels. The size of the field is currently 15 bytes and needs to be increased to 150 bytes to be able to accommodate the names of two fuels combined together; the field FUEL_CONVERT_ORIG_FUEL should also be increased in size.

- **Benefit:** A bug in the Certificate Request process was fixed. Previously, a system error would result when a Cert Request for a Test Group with two fuels was submitted.

Title: LD: 4B: Business Rules: Test Group: TG-BR92 fires incorrectly when Test Group and Tests have different model years (CR #77645)

Description: TG-BR92 is activating (and preventing submissions) when a Mfr specifies other manufacturer's tests as part of their Test Group dataset and that Test Group's model year is different than the model year of the Tests. The model year of the tests is the "Original Model Year" of the Vehicle the tests are a part of (which is where the first character of the Test Number comes from).

- **Benefit:** A bug in Business Rule TG-BR92 was fixed that was rejecting Test Group submissions when a Mfr specified other manufacturer's tests as part of their Test Group dataset and that Test Group's model year was different than the model year of the Tests.

Title: LD: 4B: BE: CR: Submission of CSI CertRequest causes CertRequests for other CSIs in the same test group to become inactive (CR #77897)

Description: If a test group has two Evap families and you submit 2 cert requests - one for each test group/Evap family CSI and each with a process code of 'New', the second CertRequest will cause the first CertRequest to become inactive even though they are different CSIs.

- **Benefit:** A bug in the Certificate Request process was fixed. Previously, if a test group had two Evap families and the manufacturer submitted 2 cert requests - one for each Test Group/Evap Family CSI and each with a process code of 'New', the second CertRequest will cause the first CertRequest to become inactive even though they were different CSIs.

Title: LD: 4B: Cert: Evaporative useful life for ethanol test groups is displayed on the certificate as "N/A"(CR #77936)

Description: The issue is that the evaporative useful life for ethanol test groups is being displayed on the certificate as "N/A" since there is no "HC-Total" standard for the test group.

Currently the "Full Useful Life Miles: Evaporative Emissions:" field on the Certificate is populated by the Evap Standard that has the highest useful life and HC-TOTAL as its emission. In addition, its Cert Region Code must match the Certificate type (FA for Federal or 50 state certs and CA for California).

Here is how to determine the evaporative useful life:

For an E85 flex fuel vehicle: Evap std is expressed as OMHCE if an ethanol fuel is used. Same for a methanol fuel type.

Evap STD is expressed as HC-Total for fuel types: gasoline, CNG, NG, LNG, and LPG.

No Evap standard for fuel types: Diesel, Hydrogen, Electric vehicles

FULL mileage for Evap STD may be either 120K or 150K miles.

It seems that (for the purposes of Evap Useful Life) there are three different types:

- 1) Ethanol (Use useful life from largest OMHCE standard) E85 Flex Fuel Vehicle
- 2) Gasoline, CNG, NG, LNG, LPG Vehicles (Use useful life from largest HC-Total standard- this is how it should already be determining the Evap useful life)
- 3) Diesel, Hydrogen, Electric Vehicles (Evap Useful life should always be "N/A" since these fuel/vehicle types do not have Evap Families)

Two fields on the Test Group dataset, "Fuel 1", and "Fuel 2" can be used to determine which type of vehicle the Cert will be used.

- **Benefit:** A bug in the Certificate Request process was fixed. Previously the evaporative useful life for ethanol test groups was being displayed on the certificate as "N/A" since there was no "HC-Total" standard for the test group.

Now the evaporative useful life for ethanol and methanol test groups on the certificate will be the highest useful life for the "OMHCE" standard.

Title: LD: 4B: BE: CR: Submission of CertRequest with no Evap Family caused Null Pointer Exception (CR #77948)

Description: Submission of a CertRequest with no Evap Family causes a Null Pointer Exception in LdcrtCertReqFinalizer, line 41

- **Benefit:** A bug in the Certificate Request process was fixed that was causing a system error if a Cert Request for a Test Group with no Evap Family was submitted.

Title: LD: 4B: BE: MFRs are not getting broadcast messages for CTDI and RFC status updates (CR #77961)

Description: When a manufacturer submits Confirmatory Test Decision Info or a Request for Certificate in 4B, only the submitter is notified of the result/decision EPA makes. This can make communication and record keeping difficult, especially for companies that have operations in multiple time zones.

- **Benefit:** Notifications of EPA decisions on Confirmatory Test Decision Info and Request for Certificates will now be broadcast to the inboxes of all users registered for the manufacturer code, and not just to the inbox of the user who made the submission. This will make company communication and record keeping easier, especially for companies that have operations in multiple time zones.

Title: LD: 4B: Test Group and LOD Test Info not matching Standards in calculations (CR #78309)

Description: Test info and Evap/Exhst standards are only being matched intermittently for Test Group and LOD Test Info.

- **Benefit:** A bug was fixed which occasionally prevented standards from being applied to Confirmatory Tests run by LOD. Previously when Confirmatory Test Information was submitted to Verify by LOD, the standards submitted in the Supplemental Information dataset were sometimes not applied to the test information. In addition, this would occasionally happen when manufacturers submitted Test Groups and the standards were not correctly applied to their test information. This has been fixed and now all tests from LOD should have the Supplemental Information standards applied properly, and all Test Groups submitted by manufacturers should have their standards applied properly, too.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.3.1

CR #	Title	Description	Project/Industry
77055	LD: 4B: Business Rules: Certification: Hole in submission validation	There is a hole in the Test Group business rules. If you select 'New' for the Process Code, but select 'Correction' for the CSI Type field, then you will pass the business rules and the submission process will not set the old dataset to inactive. When this happens, it makes the data invalid in the database and neither the old nor the new submission can be processed by CISD. Modified testGroupRules.drl to resolve issue and wrote test cases to confirm in TestGroupSubmissionTest.java. Committed Changes to both root and emergency branch release 4b.3.1.	Verify – Light Duty
77229	LD: 4B: BE: DB: FUEL_CONVERT_NEW_FUEL field too small in LD_CERT INFO	Receive oracle error FUEL_CONVERT_NEW_FUEL field in LD_CERT_INFO is too small when submitting cert request for test group that has two fuels. The size of the field is currently 15 bytes and needs to be increased to 150 bytes to be able to accommodate the names of two fuels combined together; the field FUEL_CONVERT_ORIG_FUEL should also be increased in size.	Verify – Light Duty
77431	LD: 4B: LD: 4B: BE: Evap standards are needed in Consolidated List of Standards in Test Group Screen	Update the DFs so that they are no longer defaulted. In the calculations, if Manufacturers put in 0 they should still be able to match 4k vehicles with higher mileage standards	Verify – Light Duty
77645	LD: 4B: Business Rules: Test Group: TG-BR92 fires incorrectly when Test Group and Tests have different model years	TG-BR92 is activating (and preventing submissions) when a Mfr specifies other manufacturer's tests as part of their Test Group dataset and that Test Group's model year is different than the model year of the Tests. The model year of the tests is the "Original Model Year" of the Vehicle the tests	Verify – Light Duty

		are a part of (which is where the first character of the Test Number comes from).	
77897	LD: 4B: BE: CR: Submission of CSI CertRequest causes CertRequests for other CSIs in the same test group to become inactive	If a test group has two Evap families and you submit 2 cert requests - one for each test group/Evap family CSI and each with a process code of 'New', the second CertRequest will cause the first CertRequest to become inactive even though they are different CSIs.	Verify – Light Duty
77936	LD: 4B: Cert: Evaporative useful life for ethanol test groups is displayed on the certificate as "N/A"	<p>The issue is that the evaporative useful life for ethanol test groups is being displayed on the certificate as "N/A" since there is no "HC-Total" standard for the test group.</p> <p>Currently the "Full Useful Life Miles: Evaporative Emissions:" field on the Certificate is populated by the Evap Standard that has the highest useful life and HC-TOTAL as its emission. In addition, its Cert Region Code must match the Certificate type (FA for Federal or 50 state certs and CA for California).</p> <p>Here is how to determine the evaporative useful life:</p> <p>For an E85 flex fuel vehicle: Evap std is expressed as OMHCE if an ethanol fuel is used. Same for a methanol fuel type.</p> <p>Evap STD is expressed as HC-Total for fuel types: gasoline, CNG, NG, LNG, and LPG.</p> <p>No Evap standard for fuel types: Diesel, Hydrogen, Electric vehicles</p> <p>FULL mileage for Evap STD may be either 120K or 150K miles.</p>	Verify – Light Duty

		<p>It seems that (for the purposes of Evap Useful Life) there are three different types:</p> <p>1) Ethanol (Use useful life from largest OMHCE standard) E85 Flex Fuel Vehicle</p> <p>2) Gasoline, CNG, NG, LNG, LPG Vehicles (Use useful life from largest HC-Total standard- this is how it should already be determining the Evap useful life)</p> <p>3) Diesel, Hydrogen, Electric Vehicles (Evap Useful life should always be "N/A" since these fuel/vehicle types do not have Evap Families)</p> <p>Two fields on the Test Group dataset, "Fuel 1", and "Fuel 2" can be used to determine which type of vehicle the Cert will be used.</p>	
77948	LD: 4B: BE: CR: Submission of CertRequest with no Evap Family caused Null Pointer Exception	Submission of a CertRequest with no Evap Family causes a Null Pointer Exception in LdcrtCertReqFinalizer, line 41	Verify – Light Duty
77961	LD: 4B: BE: MFRs are not getting broadcast messages for CTDI and RFC status updates	When a manufacturer submits Confirmatory Test Decision Info or a Request for Certificate in 4B, only the submitter is notified of the result/decision EPA makes. This can make communication and record keeping difficult, especially for companies that have operations in multiple time zones. Is it possible for notification e-mails regarding these topics to be sent to all users registered to the applicable manufacturer code?	Verify – Light Duty
78309	LD: 4B: Test Group and LOD Test Info not matching Standards in calculations	Test info and Evap/Exhst standards are only being matched intermittently for Test Group and LOD Test Info. This problem was originally thought to be fixed in CDX00077047.	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.3

November 14, 2008

Prepared for:
U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203
Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

Title: LD: 4B: Fuel Economy Label: Add enumeration to Gas Guzzler Exempt field (CR #76932)

Description: Add a value for "T- Truck" to this field in the following places: Frontend Screen, XML Schema, Back-end Database.

- **Benefit:** A new enumeration was added to the Gas Guzzler Exemption field of the Fuel Economy Label dataset. T-Truck is now a valid value in this field.

Title: LD: 4b: LD: 4b: Certification Standards Calculation do not default the DFs if the Manufacturers does not enter them (CR #77046)

Description: Update the DFs so that they are no longer defaulted. In the calculations if the Manufacturers put in zero, they should still be able to match 4k vehicles with higher mileage standards.

- **Benefit:** A bug in the Certification Standards calculations requiring submission of fake DFs was fixed. Previously, in order for the Tests of a 4k useful life vehicle to be applied to standards for a higher useful life, the DFs had to be zero, one or blank. Now, zero or one can be submitted as DFs and 4k Tests will still apply to higher useful life standards. However, 4k Tests will still not apply to standards with higher useful lives where the DFs are blank.

Title: LD: 4b: LD: 4b: LOD Tests are not matching standards in calculations (CR #77047)

Description: When LOD submitted Test Info, the Standards calculations did not seem to match Test Results with any Applicable Standards.

- **Benefit:** A bug was fixed, which occasionally prevented standards from being applied to Confirmatory Tests run by LOD. Previously, when Confirmatory Test Information was submitted to Verify by LOD, the standards submitted in the Supplemental Information dataset were sometimes not applied to the test information. This has been fixed and now all tests from LOD should have the Supplemental Information standards applied properly.

Industry Verify Light-Duty:

Title: LD: 4B: SI: Add test procedures 62 and 63 to EPA Test Procedures in Supplemental Info (CR #77262)

Description: Add a value for "T- Truck" to this field in the following places: Frontend Screen, XML Schema, Back-end Database.

- **Benefit:** A new enumeration was added to the Gas Guzzler Exemption field of the Fuel Economy Label dataset. T-Truck is now a valid value in this field.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.3

CR #	Title	Description	Project/Industry
76932	LD: 4B: Fuel Economy Label: Add enumeration to Gas Guzzler Exempt field	Add a value for "T- Truck" to this field in the following places: Frontend Screen, XML Schema, Backend Database	Verify – Light Duty
77262	LD: 4B: SI: Add test procedures 62 and 63 to EPA Test Procedures in Supplemental Info	Manufacturers need to be able to submit supplemental info for test procedures 62 and 63. Need to add to the SI schema and to EPA Test Procedures pull-down menu.	Verify – Light Duty
77046	LD: 4b: Certification Standards Calculation, don't default the DFs if the Manufacturers doesn't enter them	Update the DFs so that they are no longer defaulted. In the calculations, if Manufacturers put in 0 they should still be able to match 4k vehicles with higher mileage standards	Verify – Light Duty
77047	LD: 4B: LOD Tests not matching standards in calculations	When LOD submitted Test Info, the Standards calculations did not seem to match Test Results with any Applicable Standards.	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Emergency Maintenance Release Software Release Notes

Release 4.b.2.1

Back-end Release

October 29, 2008

Prepared for:
U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203

Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers:

Industry Verify Light-Duty:

LD: 4b: Update Fuel Economy Business Rules so the MFRs can submit without having a Certified Test Group (CR #76575)

Description: Change the following Business Rules so all that is needed is a Test Group dataset (Certified or not):

- GL-BR4
- GL-BR34
- GL-BR50

Note: All MFRs will need to pass these rules now is a Test Group dataset and they will not have to request a certificate.

- Benefit: Previously, Fuel Economy data could only be submitted for a Certified Test Group. This restriction has been changed. Now, for Fuel Economy data to be submitted, a Test Group must have been previously submitted, but it does not need to be certified.

3.2 New features and the fixes for EPA

Industry Verify Light-Duty:

LD: 4b: Update Fuel Economy Business Rules so the MFRs can submit without having a Certified Test Group (CR #76575)

Description: Change the following Business Rules so all that is needed is a Test Group dataset (Certified or not):

- GL-BR4
- GL-BR34
- GL-BR50

Note: All MFRs will need to pass these rules now is a Test Group dataset and they will not have to request a certificate.

- Benefit: Previously, Fuel Economy data could only be submitted for a Certified Test Group. This restriction has been changed. Now, for Fuel Economy data to be submitted, a Test Group must have been previously submitted, but it does not need to be certified.

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.2.1

CR #	Title	Description	Project/Industry
76575	LD: 4b: Update Fuel Economy Business Rules so that MFRs can submit without having a Certified Test Group.	Change the following Business Rules so all that is needed is a Test Group dataset (certified or not): GL-BR4 GL-BR34 GL-BR50	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.2

October 10, 2008

Prepared for:
U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203
Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers

Industry Verify Light-Duty:

LD: 4b: Fixes to testing issues in Release 4.b (CR #76057)

- This CR represents all the fixes for the issues on the Verify R4.b testing tracker with the following numbers. The issue testing tracker was provided to the Manufacturers and EPA.
 - 297, 311, 315, 344, 361, 416, 427, 459, 466, 519, 523, 524, 525, 526, 530, 531, 539, 540, 544, 552, 553, 554, 558, 559, 563, 567, 569, 570, 571, 572, 574, 575, 580, 581, 582, 583, 588, 589, 590, 592, 593, 594, 595, 596, 597, 606, 608
- Benefit: The issues reported by Manufacturers and EPA are resolved. This includes changes to Confirmatory Test (CFT), Certification (CERT), Fuel Economy (FE), and In-Use Verification Program (IUVP).
 - In particular, the following major issues were resolved:
 - In Test Information, the Business Rules have been updated to allow the "Exhaust-Evap Test Number Link" field in the case of ORVR tests.
 - The Exception Point code field has been removed from the Shift Schedule dataset
 - The Supplemental Information dataset has been updated so Shift schedules are no longer required
 - The IUVP Test Number generation module has been updated and is ready for IUVP submissions

3.2 New features and the fixes for EPA

Industry Verify Light-Duty:

LD: 4b: Fixes to testing issues in Release 4.b (CR #76057)

- This CR represents all the fixes for the issues on the Verify R4.b testing tracker with the following numbers. The issue testing tracker was provided to the Manufacturers and EPA.
 - 297, 311, 315, 344, 361, 416, 427, 459, 466, 519, 523, 524, 525, 526, 530, 531, 539, 540, 544, 552, 553, 554, 558, 559, 563, 567, 569, 570, 571, 572, 574, 575, 580, 581, 582, 583, 588, 589, 590, 592, 593, 594, 595, 596, 597, 606, 608

- **Benefit:** The issues reported by Manufacturers and EPA are resolved. This includes changes to Confirmatory Test (CFT), Certification (CERT), Fuel Economy (FE), and In-Use Verification Program (IUVP).
 - In particular, the following major issues were resolved:
 - In Test Information, the Business Rules have been updated to allow the "Exhaust-Evap Test Number Link" field in the case of ORVR tests.
 - The Exception Point code field has been removed from the Shift Schedule dataset
 - The Supplemental Information dataset has been updated so Shift schedules are no longer required
 - The IUVP Test Number generation module has been updated and is ready for IUVP submissions

Section 4. Change Requests (CRs) Included in Verify Maintenance R4.b.2

CR #	Title	Description	Project/Industry
76057	LD: 4b: Fixes to testing issues in Release 4.b	<p>This CR represents all the fixes for the issues on the testing tracker with the following numbers:</p> <p>297, 311, 315, 344, 361, 416, 427, 459, 466, 519, 523, 524, 525, 526, 530, 531, 539, 540, 544, 552, 553, 554, 558, 559, 563, 567, 569, 570, 571, 572, 574, 575, 580, 581, 582, 583, 588, 589, 590, 592, 593, 594, 595, 596, 597, 606, 608</p>	Verify – Light Duty



U.S. Environmental Protection Agency Central Data Exchange



Central Data Exchange (CDX) and Computer Sciences Corporation (CSC) Verify Project

Verify Maintenance Release Software Release Notes

Release 4.b.1 Front-end Maintenance Release

October 03, 2008

Prepared for:
U.S. Environmental Protection Agency

Contract Number: GS00T99ALD0203
Task Order Number: T0002AJM038

Section 3. Release Content

3.1 New features and the fixes for manufacturers

Industry Verify Light-Duty:

LD: Front-end User Interface updates (CR #75762)

- CSC identified various user interfaces, which required updates to the R4.b Front-end.
 - Benefit: A number of non-substantive changes were done to the Front-end User Interface in order to increase the visual appeal of the system.

LD: Front-end - Fill in "Help" buttons on Front-end (CR #75619)

- EPA provided URLs to be linked to in the Help buttons for R4.b. CSC placed these links in the Front-end application.
 - Benefit: The Help buttons on the Front-end will now provide the user with links to the Data Requirements, Business Rules' Document, and Manufacturer User's Guide.

3.2 New features and the fixes for EPA

This was a front-end maintenance release only.

Section 4. Change Requests (CRs) Included in Verify Maintenance**R4.b.1**

CR #	Title	Description	Project/Industry
75762	Verify Front -End – User Interface updates	CSC identified various user interfaces, which required updates to the R4.b Front-end.	Verify – Light Duty
75619	Verify Front-end – Fill in “Help” buttons on Front-end	EPA provided URLs to be linked to in the Help buttons for R4.b. CSC placed these links in the Front-end application.	Verify – Light Duty