Addendum to *EPA RFG EDI Technical Guideline* - April 29, 1999

1. Referring to Section A1, Mapping Notes Nos. 6 & 7 of the *Technical Guideline,* for DE738/MEA02 , add three interim X12 codes:

Property	DE738/MEA02	MEA03	MEA04	
	Code	Value	Code	UM
Exhaust toxics emissions	ETE	xxx.xx	ME:::DH:-1	Mg/Mile
NOx emissions	NXE	xxxx.x	ME:::DH:-1	Mg/Mile
NOx emissions oxygen backout	NBO	xxxx.x	ME:::DH:-1	Mg/Mile

Attachment A of this Addendum is an updated copy of these mapping notes. These codes have not been verified with X12 standards and should therefore be considered interim. ETE, NXE, and NBO are applicable to conventional gasoline and blendstock reports only, including those for Conventional Gasoline Oxygen Backout. If reporting Conventional Gasoline Oxygen Backout, you must report NXE (NOx Emissions) for the product as it is produced–i.e. prior to backing out oxygen.

Reporting values (MEA03) for the properties below also changed:

Property	MEA02	Previous MEA03 value	New MEA03 value
Oxygen content	ZO	x.xx	xx.xx
API gravity	API	xx.xx	xxx.x
E200	D7	xx.x	xxx.x
E300	D7	xx.x	xxx.x
ETBE	637-92–3	xx.xx	xxx.xx
Ethanol	64-17-5	xx.xx	xxx.xx
Methanol	67-56-1	xx.xx	xxx.xx
MTBE	1634-04-4	xx.xx	xxx.xx
TAME	1780-03-8	xx.xx	xxx.xx
t-Butanol	75-65-0	xx.xx	xxx.xx

2. Please note that properties T50 and T90 are now required to be reported on all complex model gasoline, whether conventional or reformulated.

3. Please note that for DE751/PID04, the VN designation also refers to conventional gasoline for wintertime use, in addition to "Not VOC-controlled RFG".

4. For DE751/PID04, add four interim X12 codes:

OB: Conventional gasoline (oxygen backout)
EE: Conventional blendstock (EEP report)
OE: Conventional blendstock (oxygen backout and EEP report)
MX: Mixed grade

Please refer to Attachment B of this addendum for the updated Section 8.3.1 Controlled Code Lists 3 & 4. The notes below refer to these new codes:

Use "EE" for conventional gasoline blendstock batches for which compliance is based on the equivalent emissions performance (EEP) under § 80.101(g)(3). Use "OB" for conventional gasoline batches where oxygen is backed out as per § 80.101(g)(7) for NOx compliance. Use OE for conventional blendstock batches where compliance is based on EEP <u>and</u> oxygen is backed out.

Mixed grade (MX) has been added. Several clarifications regarding reporting of mixed grade and other batch grades are appropriate. Economy grade gasolines of octane values less than typical regular product should be reported as regular. Under certain circumstances, the reported batch may represent a mix of gasolines with different grades. For these batches, use "MX". For blendstock batches, indicate the grade of the final blend of gasoline which resulted from combining the blendstock with another product(s). For blendstock batches required to be reported under § 80.102 (blendstock accounting), use "MX".

5. When reporting batch volume for conventional gasoline blendstock batches for which compliance is based on the equivalent emissions performance (EEP) under § 80.101(g)(3), indicate the volume of the <u>blendstock</u>.

6. When reporting batch properties for conventional gasoline blendstock batches for which compliance is based on the equivalent emissions performance (EEP), indicate the properties of the <u>blendstock</u>.

A more thorough description of the appropriate application of these codes may be found in the RFG regulations and in the instructions applicable to the most recent version of the corresponding paper form, EPA Form 3520-20C (Rev. 03-99). We highly recommend reading through the instructions for the paper form, which are available on EPA's web site.

Note: The attachments to this addendum, which are updated pages, can be used to substitute for specific pages in your copy of the guidelines. The main text of the guidelines, however, has not been updated; therefore, among other things, the references in the guidelines to specific corresponding sections of the paper forms are no longer correct and should be ignored.

Addendum to EDI Guideline Revision - April 29, 1999 - Attachment A

4. Multiple CID*D7 Loops within the LIN are to report the Distillation Fraction at 200 and 300 degrees Fahrenheit.

5. Property and Emissions Performance values are reported in Measurement Segments.

6. Identification of the property being reported is in the Measurement Segment for the following. The codes are X12 Codes from DE 738 and appear in MEA02.

X12 CODE	MEA02, DE 738
API	API Gravity
A4	Aromatics
ZBZ	Benzene
D7	Distillation Fraction (E200, E300)
EXH	Exhaust Benzene Emissions
NOx	NOx Emissions Performance
OLE	Olefins
ZO	Oxygen
RVP	Reid Vapor Pressure
ZS	Sulfur
T50	T50
T90	T90
TOX	Toxics Emissions Performance
VOC	VOC Emissions Performance
ETE	Exhaust Toxics Emissions
NXE	NOx Emissions
NBO	NOx Emissions Oxygen Backout

Note: The entry "ROX" for renewable oxygenate is no longer represented on this table.
Note: As of 4/9/99, codes ETE, NXE and NBO have not been approved by X12.

7. The following chart identifies the precision and the unit of measurement for the properties to be reported. The **S** or **C** in PID07 indicates the need for a MEA07.

PROPERTY	MEA02	MEA03	MEA04		PID07		MEA07 DESIGNATORS	
	LQ02*	VALUE	CODE	UM	S	C	AVERAGE	PER GALLON
BENZENE CONTENT	ZBZ	X.XX	P1	% (VOL)	S	C	44	45
OXYGEN CONTENT	ZO	XX.XX	P1	% (WT)	S	C	44	45
NOx	NOX	XX.X	P1	% (RED)		C	44	45
RVP	RVP	XX.XX	PS	PSI	S		44	45
TOXICS EMISSIONS PERFORMANCE	TOX	XX.X	P1	% (RED)	S	C	44	45
VOC EMISSIONS PERFORMANCE	VOC	XX.X	P1	% (RED)		C	44	45
SULFUR CONTENT	ZS	XXXX	59	PPM				
API GRAVITY	API	XXX.X	69	TEST SPECIFIC SCALE				
AROMATICS CONTENT	A4	XX.X	P1	% (VOL)				
E200, DISTILLATION FRACTION	D7	XXX.X	P1	% (VOL)				
E300, DISTILLATION FRACTION	D7	XXX.X	P1	% (VOL)				
ETBE	* 637-92-3	XXX.XX	P1	% (VOL)				
ETHANOL	* 64-17-5	XXX.XX	P1	% (VOL)				
EXHAUST BENZENE EMISSIONS	EXH	XXX.XX	ME:::DH:-1	(MG/MILE)				
METHANOL	* 67-56-1	XXX.XX	P1	% (VOL)				
MTBE	* 1634-04-4	XXX.XX	P1	% (VOL)				
OLEFINS CONTENT	OLE	XX.X	P1	% (VOL)				
T50	T50	XXX.X	FA	DEG F				
T90	T90	XXX.X	FA	DEG F				
TAME	* 1784-03-8	XXX.XX	P1	% (VOL)				
T-BUTANOL	*75-65-0	XXX.XX	P1	%(VOL)				
EXHAUST TOXICS EMISSIONS	ETE	XXX.XX	ME:::DH:-1	(MG/MILE)				
NOx EMISSIONS	NXE	XXXX.X	ME:::DH:-1	(MG/MILE)				
NOx EMISSIONS OXYGEN BACKOUT	NBO	XXXX.X	ME:::DH:-1	(MG/MILE)				

Properties with codes marked with an asterisk) use Chemical Abstract Service Codes and are to be shown in an LQ Segment.

Note: The entry for Renewable Oxygenates ("ROX") is no longer represented in this table.

Addendum to EDI Guideline Revision - April 29, 1999 - Attachment B

8.3   EPA REFGAS Code Lists

8.3.1   Controlled Code Lists 1-9

EPA CODE LIST ID	NAME	CONTENT
01	IDENTIFICATIONS, N103, DE 66 = EP	N104, DE 67, ID Code NNNN - Company (Min 4, Max 4) FFFFF - Facility (Min 5, Max 5)
02	PIN, REF01, DE 128 = 4A	REF02, DE 127, (Min 4, Max 4) NNNN - Company ANNN - Submitter
03	PRODUCT, PID02, DE 750 = 08	PID04, DE 751, Product Description Code (Min 2, Max 2) CB - Conventional Blendstock EE - Conventional Blendstock (EEP Report) CG - Conventional Gasoline OB - Conventional Gasoline (Oxygen Backout) OE - Both OB and EE GT - GTAB - Gasoline Treated as Blendstock RX - RBOB - Total All Types (See Anti-dump & Oxy. Avg. Rpts.) RO - RBOB - Any Oxygenate RR - RBOB - Any Renewable Oxygenate RE - RBOB - Ethers Only RN - RBOB - Non-VOC Controlled Renewable Ether Only RS - RBOB - Refiner Specified RT - RBOB - Renewable Ether Only RG - Reformulated Gasoline
04	GRADE, PID 02, DE 750 = 38	PID04, DE 751, Product Description Code (Min 2, Max 2) RG - Regular MG - Mid-Grade PR - Premium MX - Mixed
05	PROGRAM, PID02, DE 750 = PG	PID04, DE 751, Product Description Code (Min 2, Max 2)
06	VOC CONTROL, PID02, DE 750 = VC	PID04, DE 751, Product Description Code (Min 2, Max 2) V1 - VOC - Control Region 1 V2 - VOC - Control Region 2 VN - Not VOC Controlled (or CG Winter)
07	COMPLIANCE METHOD, PID02, DE 750 = CM	PID04, DE 751, Product Description Code (Min 1, Max 2) **AS-Alternative Simple Model** C - Complex Model S - Simple Model
08	SUB PRODUCT, PID02, DE 750 = 09	PID04, DE 751, Product Description Code (Min 2, Max 2) IR - Included in Ratio Calculations XR - Excluded from Ratio Calculations IC - Included in Compliance Calculations
09	AREA IDENTIFICATION, N103, DE 66 = EP	N104, DE 67, Area Identification (Min 3, Max 3)