MEMO CP-M/16

To: **Distribution**
From: **V.V.Varlamov**
Subject: **Errors in EXFOR**

Starting the full volume using of our relational EXFOR database upon our Web-site we have found out many errors of two types:

- format errors (shifts, missing or extra commas etc.);
- reaction description errors (CODEs absent in Dictionary 36).

We compared contents of ENTRYs with these errors from our Web-site with correspondent ENTRYs put upon two other Web-sites (NNDC and NDS) and found out that situation is very intricate! Some of these ENTRYs:

- contain the same errors (for example, A0126001, A0055001, A138902-03);
- contain the errors on one site, but are corrected on another one (for example, A0014002-008, A0060002);
- are different from that on our site but again contain the errors (for example, B0098003,008).

Because we received our Web-site data from F.Chukreev maybe the disagreements under discussion mean that NNDC and NDS Web-sites contain old version data?

We compare also the errors found out by us with appropriate errors have been found out by Victor Zerkin before the passed year technical meeting and found out many duplications but many additions also.

So we have many ENTRYs in Internet (here I mean only the ENTRYs with errors, but this could be in case of ENTRYs without errors also) which exist in two-three versions. Some of them differ quite strongly (for example, our ENTRY A0014 we received from F.Chukreev contains 7 SUBENTRIES, but the same number ENTRY on NNDC site contains one SUBENTRY only).

Therefore after the discussion with F.Chukrev I propose to include to the Agenda of upcoming meeting discussion of this problem, first of all the following questions:

- Is it good that we have several versions of the ENTRYs with the same number in Internet? If "not", how could we improve the situation?

- Must we check all old Entries by today checking codes?
- Must we correct the most obvious (format) errors as soon as possible?
- Must we do this job in coordination? By what procedure?
- Must we additionally discuss the way to correct not obvious reaction description errors?
- What about modification of Dictionary 36?

All items have been discussed with F.Chukreev.

Two errors lists are applied.

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FORMAT ERRORS

Shifts in DATA/COMMON & pointers in DATA-UNITS lines

        err:40324006::data

        err:O0219013::common

        err:22205003::data

        err:F0167012::common

        err:A0557041::data

        err:D4076

              003-

            -017::data

"(" from free text in column 12

        err:F0175001::SAMPLE

"-" from free text in column 11

        err:A0126001::COMMENT:-

"." from free text in column 11

        err:20822001::CORRECTION:.

"Not correct pointers": shift of "(" into column 11

        err:O0166011::LEVEL-PROP:(

        err:F0378002::STATUS:(

        err:F0378004::STATUS:(

        err:F0378008::STATUS:(

        err:10729005::HISTORY:(

        err:11659006::STATUS:(

```
err:40156005::MONITOR:(
err:40161016::STATUS:(
err:40161018::STATUS:(
err:40161019::STATUS:(
err:40161020::STATUS:(
err:40161021::STATUS:(
err:40161022::STATUS:(
err:40161023::STATUS:(
err:40858007::MONITOR:(
```

Not correct code in DATA-HEAD
```
err:40046002::ENERGY
err:40046003::ENERGY
err:40046004::ENERGY
```

Shift in DATA-HEAD line
```
err:M0169006::ASS-MIN
err:M0169007::ASS-MIN
```
Missing comma
```
err:R0019001::AUTHOR
err:A0055001::AUTHOR
err:20910001::AUTHOR
err:40033001::AUTHOR
err:M0502001::AUTHOR
```

"(" instead of ")"
```
err:11127001::HISTORY
```

Extra "C" in column 23
```
err:P0025002::COMMON
```

Missing ")"

err:M0274007::INC_SOURCE

Replaced DATA HEADINGS: ELEM instead of MASS and vise versa
err:A0031003::DATA

CODE ERRORS

err:Number:Pointers:Codes

err:A0014002::PR,DA,,LEG
err:A0014003:1:PR,DA
err:A0014004:1:PR,DA
err:A0014005:1:PR,DA
err:A0014006:1:PR,DA
err:A0014007:1:PR,DA
err:A0014008:1:PR,DA
err:A0060002::PAR,DE,G
err:A0237011::PAR/UND,DA
err:A0237014::PAR/UND,DA
err:A0388002::PAR,TTY/DA,G
err:A0388003::PAR,TTY/DA,G
err:A0388004::PAR,TTY/DA,G
err:A0388005::PAR,TTY/DA,G
err:A0388006::PAR,TTY/DA,G
err:A0388007::PAR,TTY/DA,G
err:A1389002::PAR,DA,,COS/RS
err:A1389003::PAR,DA,,COS/RS
err:B0098003:2:(CUM)/UND,TTY
err:B0098003:3:(CUM)/UND,TTY
err:B0098008:2:(CUM)/UND,TTY

err:C0025003::,DA,,ASY
err:F0263003::PAR,DA,,COS/RS
err:13698002::TER,FY/CRL,HF/LF
err:13698007::PRE/TER,FY/CRL,A/LF
err:20582002:2:TEM,SIG
err:20616002::PAR,AKE,N
err:20616004::PAR,AKE,N
err:20616006::PAR,AKE,N
err:20836004::SEQ,DA,A
err:20836016::SEQ,DA,A
err:20837009::SEQ,DA,A
err:20837010::SEQ,DA,A
err:21016003::TEM,SIG
err:21095005::PR,NU,HF
err:21146013::TEM,SIG
err:21146016::TEM,SIG
err:21146017::TEM,SIG
err:21146018::TEM,SIG
err:21146019::TEM,SIG
err:21146020::TEM,SIG
err:21274002::TEM,SIG
err:21274003::TEM,SIG
err:21274004::TEM,SIG
err:21274005::TEM,SIG
err:21274006::TEM,SIG
err:21274008::TEM,SIG
err:21297004:3:STF
err:21628003::,PAR,DA
err:21643002::PAR/DL,NU
err:21689002::IND/PAR,FY
err:21689003::PAR,ZP
err:21689004::IND/PAR,FY
err:21689005::PAR,ZP
err:21689006::IND/PAR,FY
err:21689007::PAR,ZP

```
err:21689008::IND/PAR,FY
err:21689009::PAR,ZP
err:21689010::IND/PAR,FY
err:21689011::PAR,ZP
err:21689014::IND/PAR,FY
err:21689015::IND/PAR,FY
err:21689016::IND/PAR,FY
err:21689017::IND/PAR,FY
err:21689018::IND/PAR,FY
err:21699002::TER,AKE
err:21699003::TER,AKE
err:21701002::PAR/IND,FY
err:21701002::PAR/CUM,FY
err:21701005::PAR/IND,FY
err:21701005::PAR/CUM,FY
err:21723003::CUM,FY/SUM
err:21929004::,DA/DE,,LEG
err:22250002::,AH
err:22250003::,AH
err:22250004::,AH
err:22250005::,AH
err:22250006::,AH
err:22250007::,AH
err:22308003::TER/BIN,FY
err:30323005::,SIG,,RAT
err:30326002::TER/BIN,DA/RAT,FF
err:30326002::TER/BIN,DA/RAT,FF
err:30326003::TER/BIN,DA/RAT,FF
err:30326003::TER/BIN,DA/RAT,FF
err:30521002:L:TER,CRL,FF/FF
err:30521002:L:TER,CRL,A/FF
err:30521002:H:TER,CRL,FF/FF
err:30521002:H:TER,CRL,A/FF
err:30916002::,CRL,A/FF
err:40386002::,SPC,G
```

err:40387002::,SPC,G
err:40593002::PRE,DA,,RSD
err:40593003::PRE,KE/DA
err:M0030005::,DE,N/P
err:M0030006::,DE,P/D
err:M0030007::,DE,N/D
err:M0030008::PAR,DA,N/P
err:M0033002::,DE,N/P
err:M0035002::,DE,N/P
err:M0035005::,DE,P/D
err:M0035008::,DE,N/D
err:M0035020::,DE,N/P
err:M0051011::,DE,N/P
err:M0051014::,DE,P/D
err:M0051017::,DE,N/D
err:M0054002::PAR,MCO,N/P
err:M0064014::,DA,RSD
err:M0065003::,DE,N/P
err:M0065004::,DE,P/A
err:M0065005::,DE,P/RSD
err:M0065006::,DE,A/RSD
err:M0071018::,DA,RSD
err:M0071021::,DA,RSD
err:M0071024::,DA,RSD
err:M0071027::,DA,RSD
err:M0071030::,DA,RSD
err:M0071033::,DA,RSD
err:M0071036::,DA,RSD
err:M0071039::,DA,RSD
err:M0133007::,DA,,CS2/RS
err:M0179002::,DA,,SN2/RS
err:M0184002::,DA,,SN2/RS
err:M0184003::,DA,,SN2/RS
err:M0184004::,DA,,SN2/RS
err:M0184005::,DA,,SN2/RS

err:M0186012::,DA,,SN2/RS
err:M0186013::,DA,,SN2/RS
err:M0186014::,DA,,SN2/RS
err:M0186015::,DA,,SN2/RS
err:M0186016::,DA,,SN2/RS
err:M0191002::,DA,,SN2/RS
err:M0225029::,DA,A,LEG/RS
err:M0225030::,DA,A,LEG/RS
err:M0242004::,DA,LEG
err:M0242005::,DA,LEG
err:M0242006::,DA,LEG
err:M0242007::,DA,LEG
err:M0242009::,DA,LEG
err:M0242010::,DA,LEG
err:M0242013::,DA,LEG
err:M0242014::,DA,LEG
err:M0242016::PAR/EP,SIG
err:M0242017::PAR/EP,SIG
err:M0256002::,DA,N/P
err:M0256003::,DA,N/P
err:M0256004::,DA,N/P
err:M0350016::PAR,DA,,COS/RS
err:M0350017::PAR,DA,,COS/RS
err:M0382002::PAR,INT,G,4PI
err:M0382003::PAR,INT,G,4PI
err:M0382004::PAR,INT,G,4PI
err:M0393002::,DE,BRA/REL
err:M0435003::PAR,INT
err:M0435004::PAR,INT
err:M0435007::PAR,INT
err:M0435008::PAR,INT
err:M0435008::PAR,INT
err:M0435009::PAR,INT
err:M0436003::PAR,INT
err:M0437003::PAR,INT

err:M0446003::PAR,INT,G
err:M0448004::PAR,INT
err:M0448005::PAR,INT
err:M0499004::PAR,INT
err:M0499005::PAR,INT
err:M0500003::PAR,INT
err:M0525020::,DA,RSD
err:M0525021::,DA,RSD
err:M0525022::,DA,RSD
err:M0525023::,DA,RSD
err:M0525024::,DA,RSD
err:M0525025::,DA,RSD
err:M0525026::,DA,RSD
err:M0525027::,DA,RSD
err:M0525028::,DA,RSD
err:M0536004::,POL/DA,,AZI
err:O0132122::IND/UND,SIG,,G