Proposed CIE output linearization for printers and offset machines

Printer or offset company

       realized output options:
       Company preference (Y/N)?
       DIN 33872 (CIE?) linearized (Y/N)?
       Only one option not specified (Y/N)?

User printer or offset device
without or with device specific
PS linearization code
in print output software.

User visual test
with output of DIN 33872-X test charts.
Agrees the output with the user wishes (Y/N)?

If No (N) agreement to the user wishes then:
Output of reference test chart with 1080 colours.
Continues colour change in output (Y/N)?
If Yes, then linearization possible and decision:
Mail the output to a linearization company. ⟶

Linearization company: ⟵
Measures 1080 user colours and produces
PS linarization code
for user device and paper

For test charts of DIN 33872-1 to -6 see
http://www.ps.bam.de/33872E

Advantages of Output Linearization:
- Linear relation between rgb and CIELAB data.
- No loss of visual information for 16 step
  colour series on different colour devices.
- Grey is printed by black only and not by CMY
  (complete under colour removal), low cost.

AN701-3