IP-61 Error codes 140, 141 (pg 1 of 3)
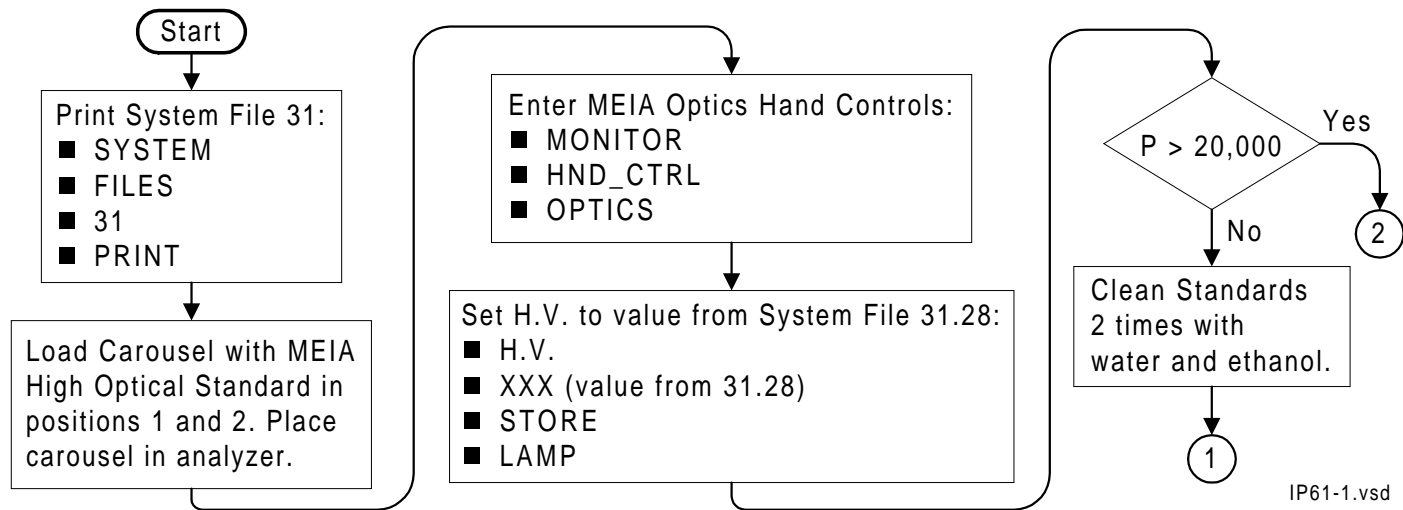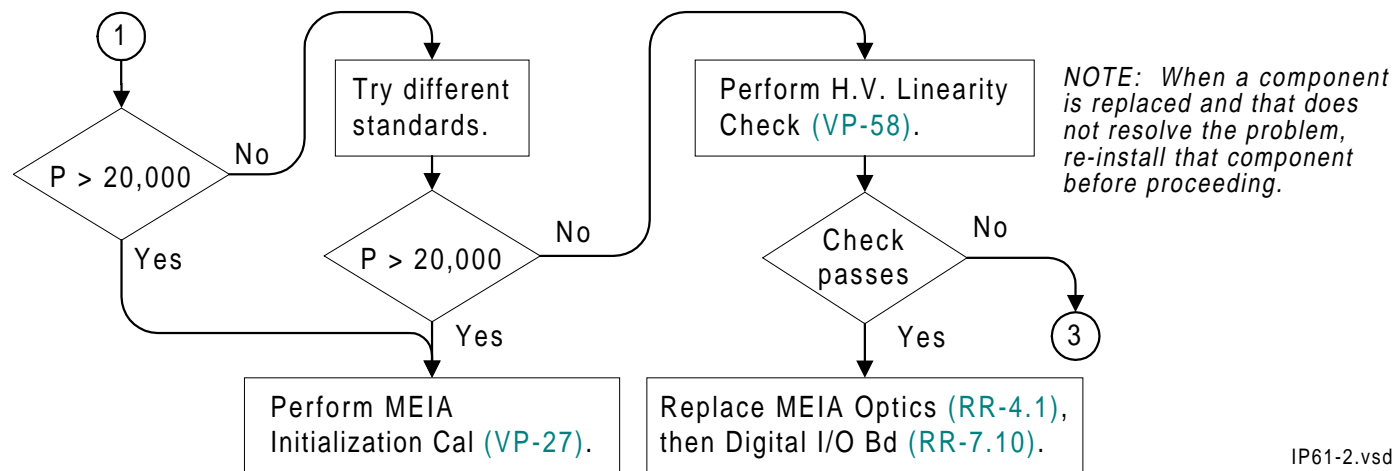
EC-140: H below threshold value   EC-141: H is not linear


```
                    ┌─────────┐
                    │  Start  │
                    └─────────┘
                         │
                         ▼
        Print System File 31:
        ■ SYSTEM
        ■ FILES
        ■ 31
        ■ PRINT
                         │
                         ▼
        Load Carousel with MEIA
        High Optical Standard in
        positions 1 and 2. Place
        carousel in analyzer.
```

Enter MEIA Optics Hand Controls:
■ MONITOR
■ HND_CTRL
■ OPTICS

Set H.V. to value from System File 31.28:
■ H.V.
■ XXX (value from 31.28)
■ STORE
■ LAMP

P > 20,000   Yes → (2)

No

Clean Standards
2 times with
water and ethanol.

(1)

IP61-1.vsd

NOTE: When a component is replaced and that does not resolve the problem, re-install that component before proceeding.

Try different standards.

P > 20,000

Perform H.V. Linearity Check (VP-58).

Check passes

P > 20,000

Perform MEIA Initialization Cal (VP-27).

Replace MEIA Optics (RR-4.1), then Digital I/O Bd (RR-7.10).

IP61-2.vsd

②

Perform MEIA Photo Cal (VP-27A).

Perform H.V. Linearity Check (VP-58).

③

Cal passes

No

Yes

Check passes

No

Yes

Replace PMT HV Power Supply (RR-4.5), then Analog Bd (RR-8.3), then Digital I/O Bd (RR-7.10).

Normal operation

IP61-3.vsd