

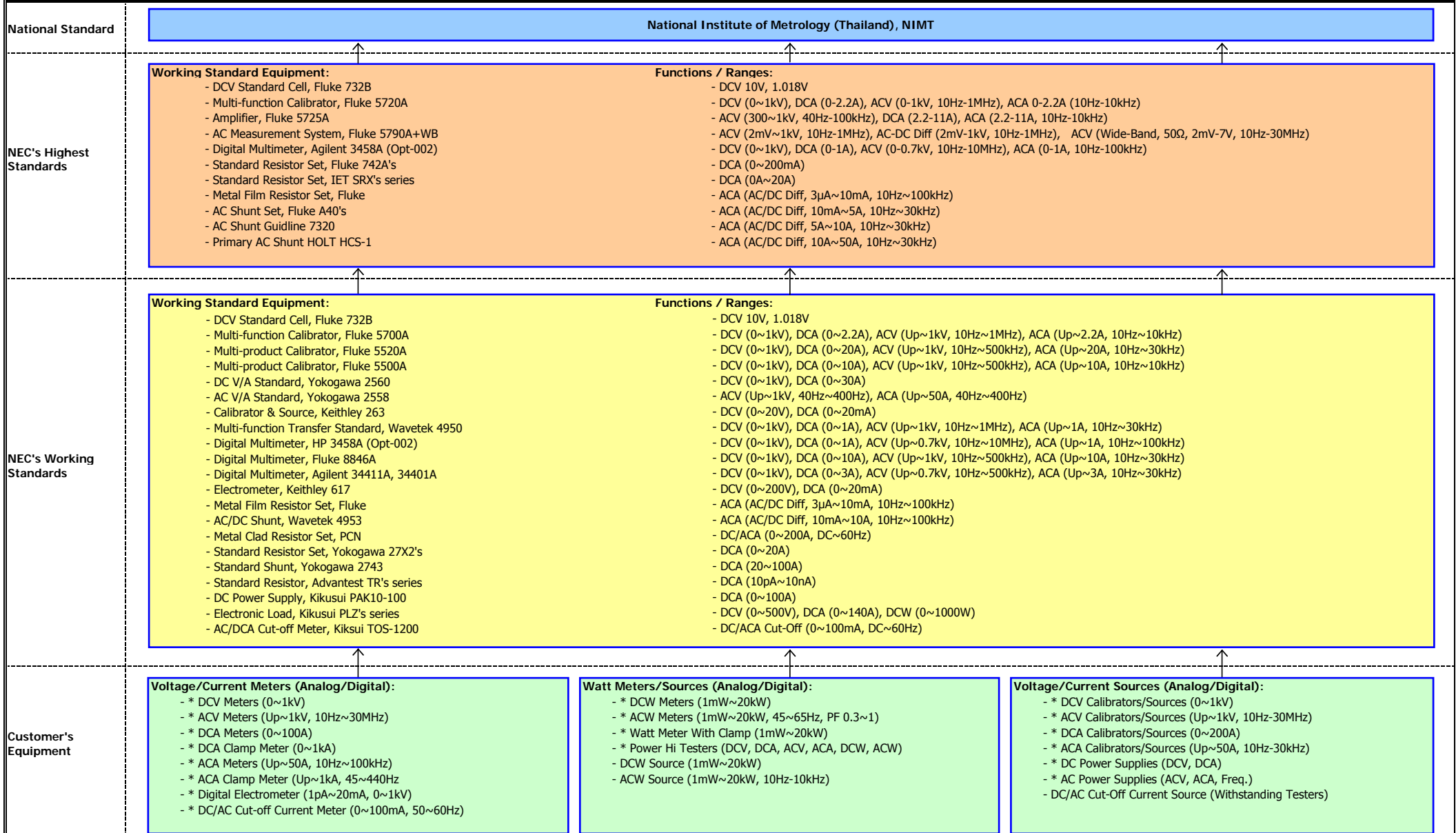



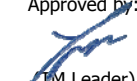
Prepared by:  (TM)	Approved by:  TM Leader
Date: 20-Mar-09	Date: 20-Mar-09
Scope: Electrical Calibration (1) (Voltage, Current, Power)	

Traceability Chart

NEC
 Calibration Center
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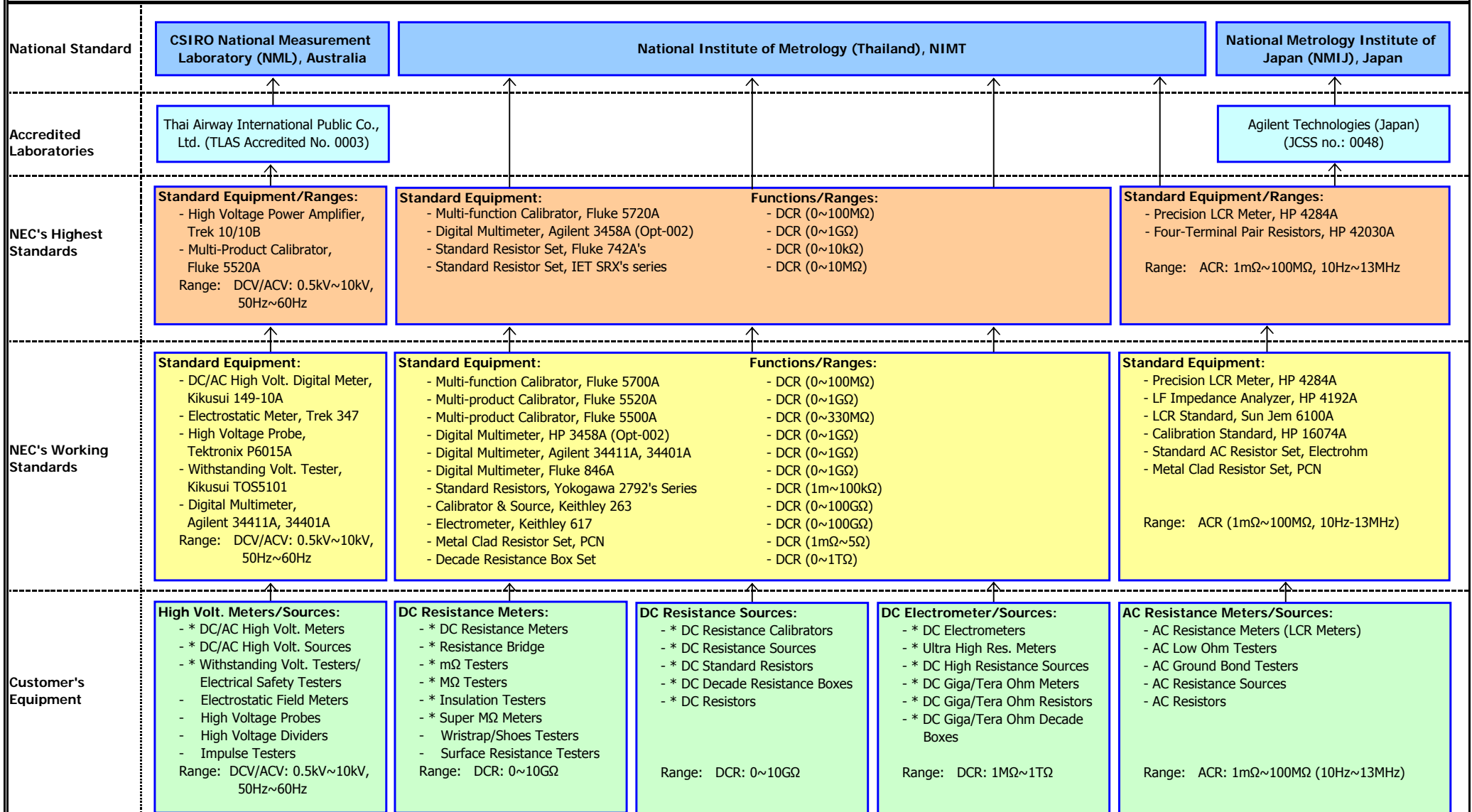


Remark: * ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).



Prepared by:  (TM)	Approved by:  (TM Leader)
Date: 20-Mar-09	Date: 20-Mar-09
Scope: Electrical Calibration (2) (High Voltage, Resistance)	

Traceability Chart

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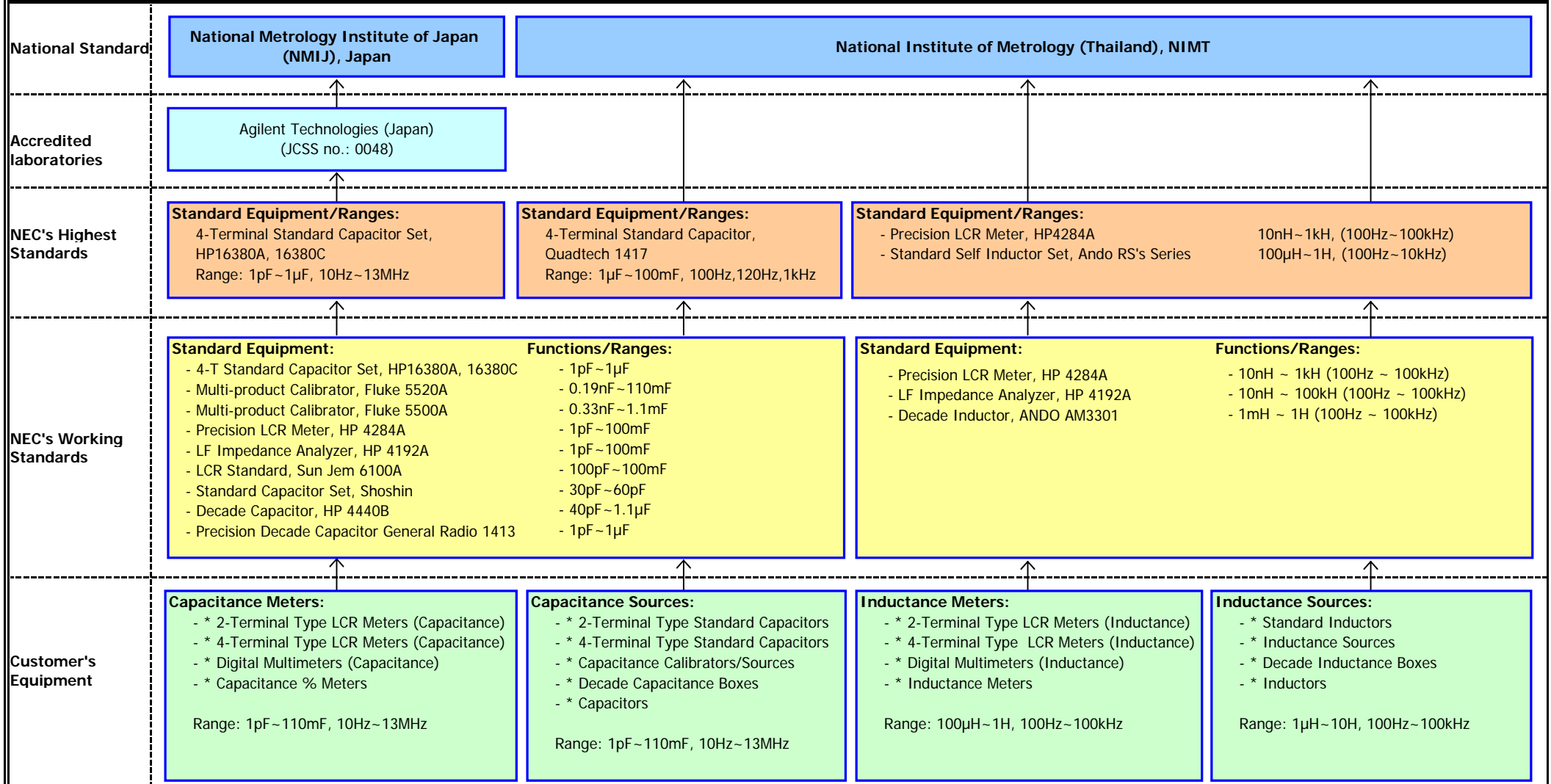


Remark: * ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).

Prepared by:  (TM)	Approved by:  (TM Leader)
Date: 20-Mar-09	Date: 20-Mar-09
Scope: Electrical Calibration (3) (Capacitances, Inductances)	

Traceability Chart

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Traceability Chart

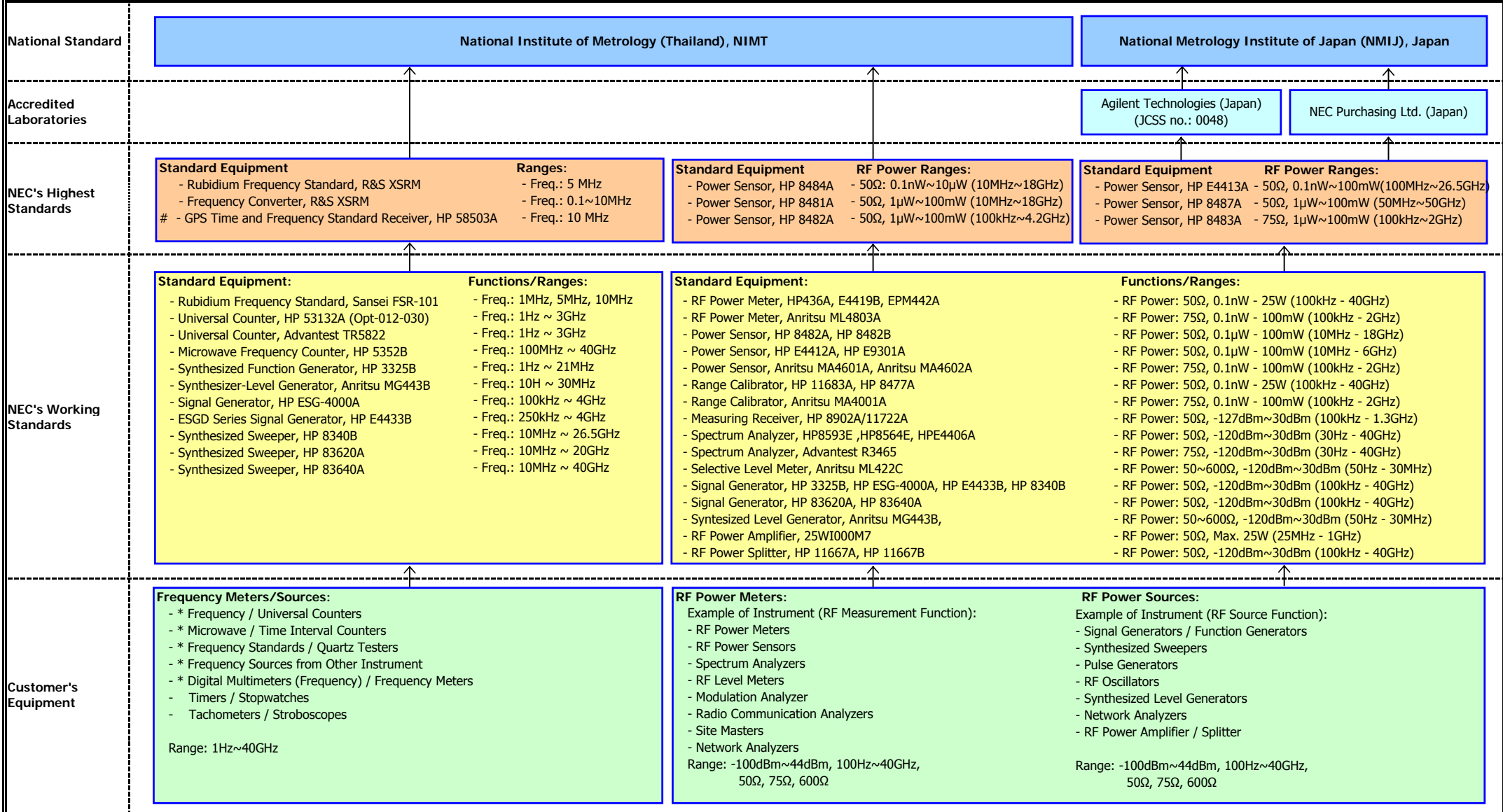
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



Calibration
 No. 0132

Prepared by: <i>[Signature]</i> (TM)	Approved by: <i>[Signature]</i> (TM Leader)
Date: 24-Mar-09	Date: 24-Mar-09
Scope: Electrical Calibration (4) (Frequency, RF Power)	



Remark: * ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).
 # No traceability to national standard

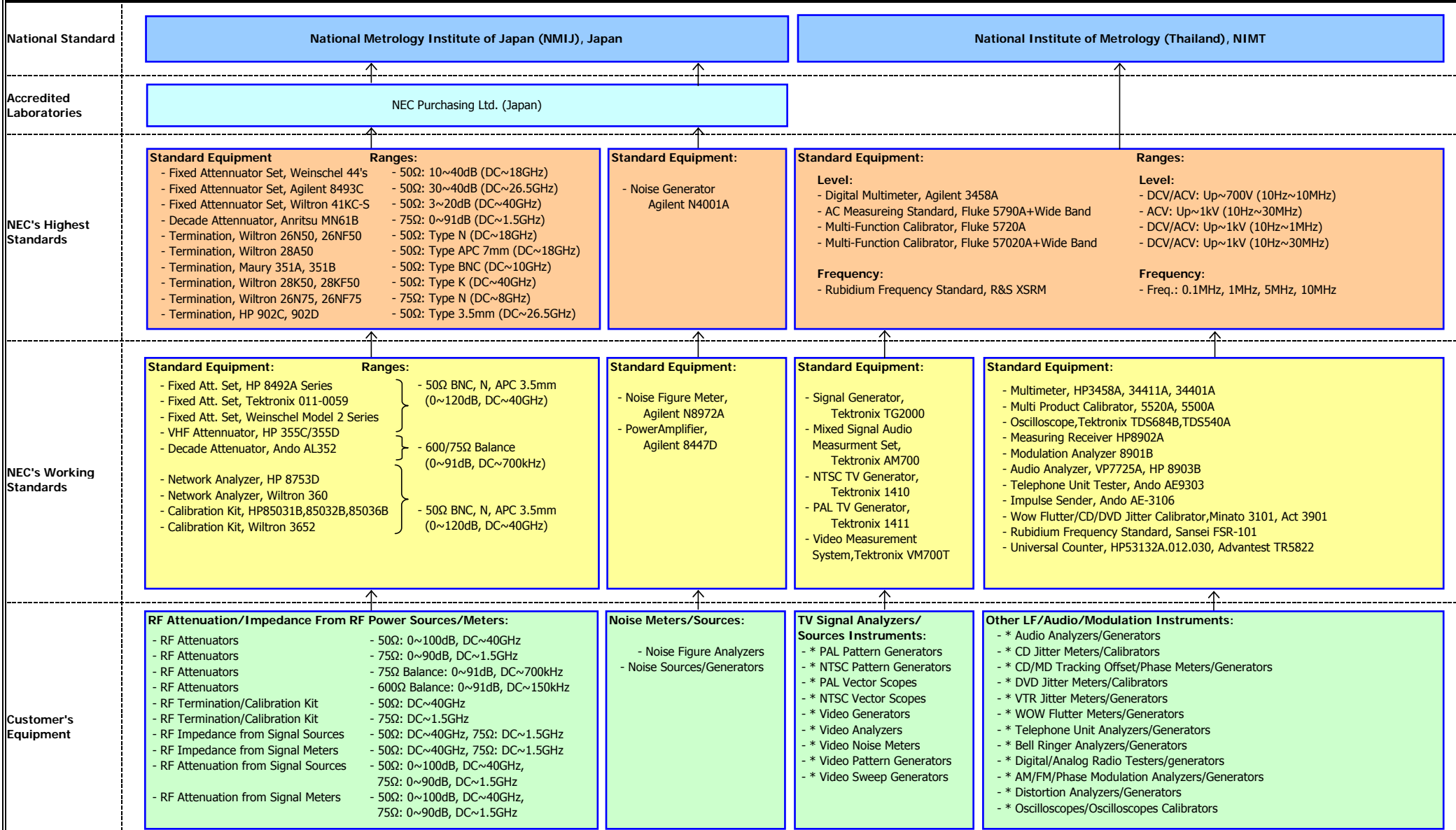
Prepared by:  (TM)
 Approved by:  (TM Leader)
 Date: 24-Mar-09 Date: 24-Mar-09

Traceability Chart

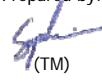
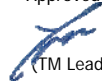
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Scope: **Electrical Calibration (5)**
 (RF Att./SWR/TV/Tel/Flutter/Jitter/LF)

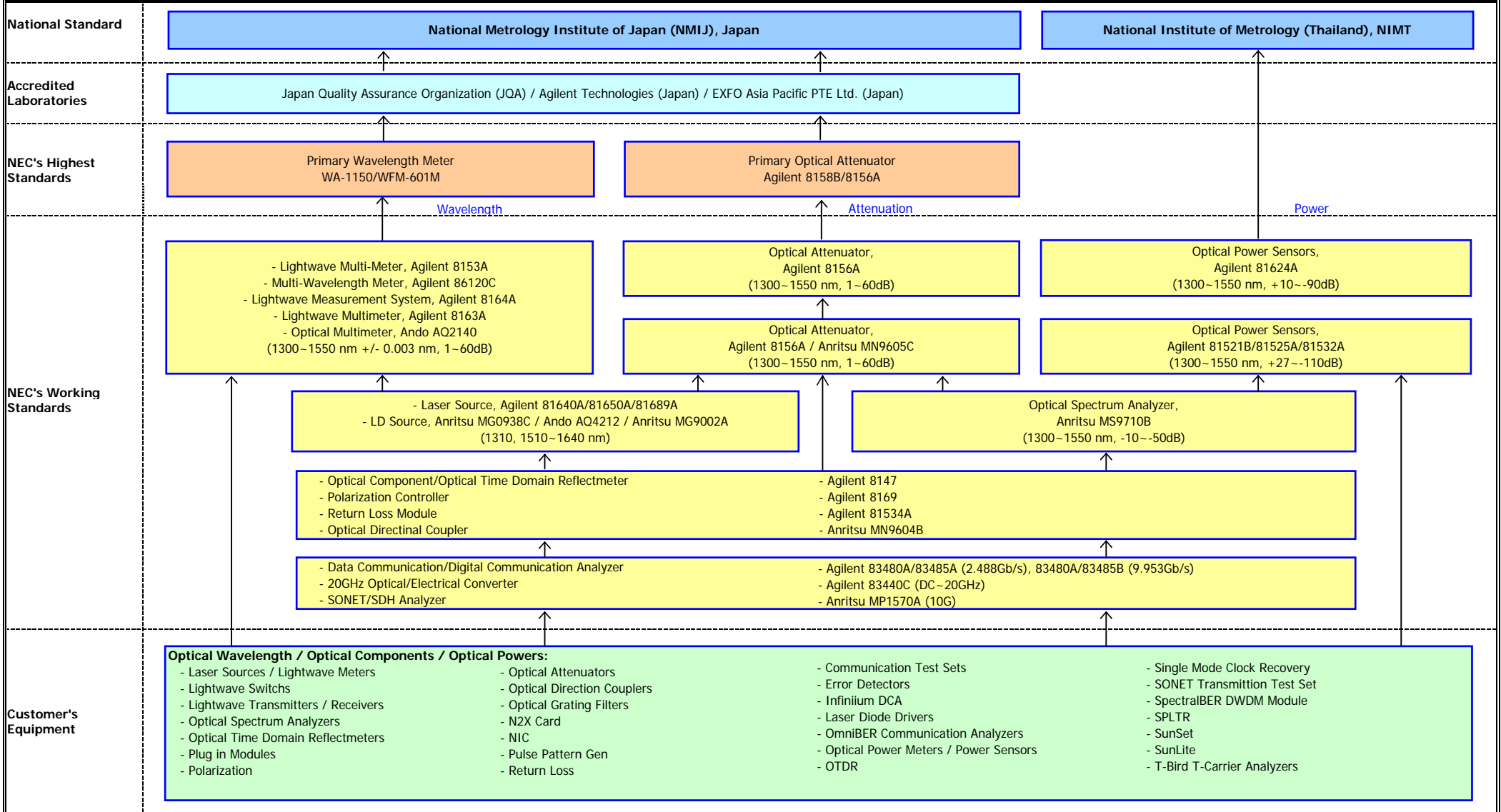


Remark: * ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).
 * Accredited scopes only ACV, DCV and frequency only

Prepared by:  (TM)	Approved by:  (TM Leader)
Date: 24-Mar-09	Date: 24-Mar-09
Scope: Electrical Calibration (6) (Optical)	

Traceability Chart

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Traceability Chart

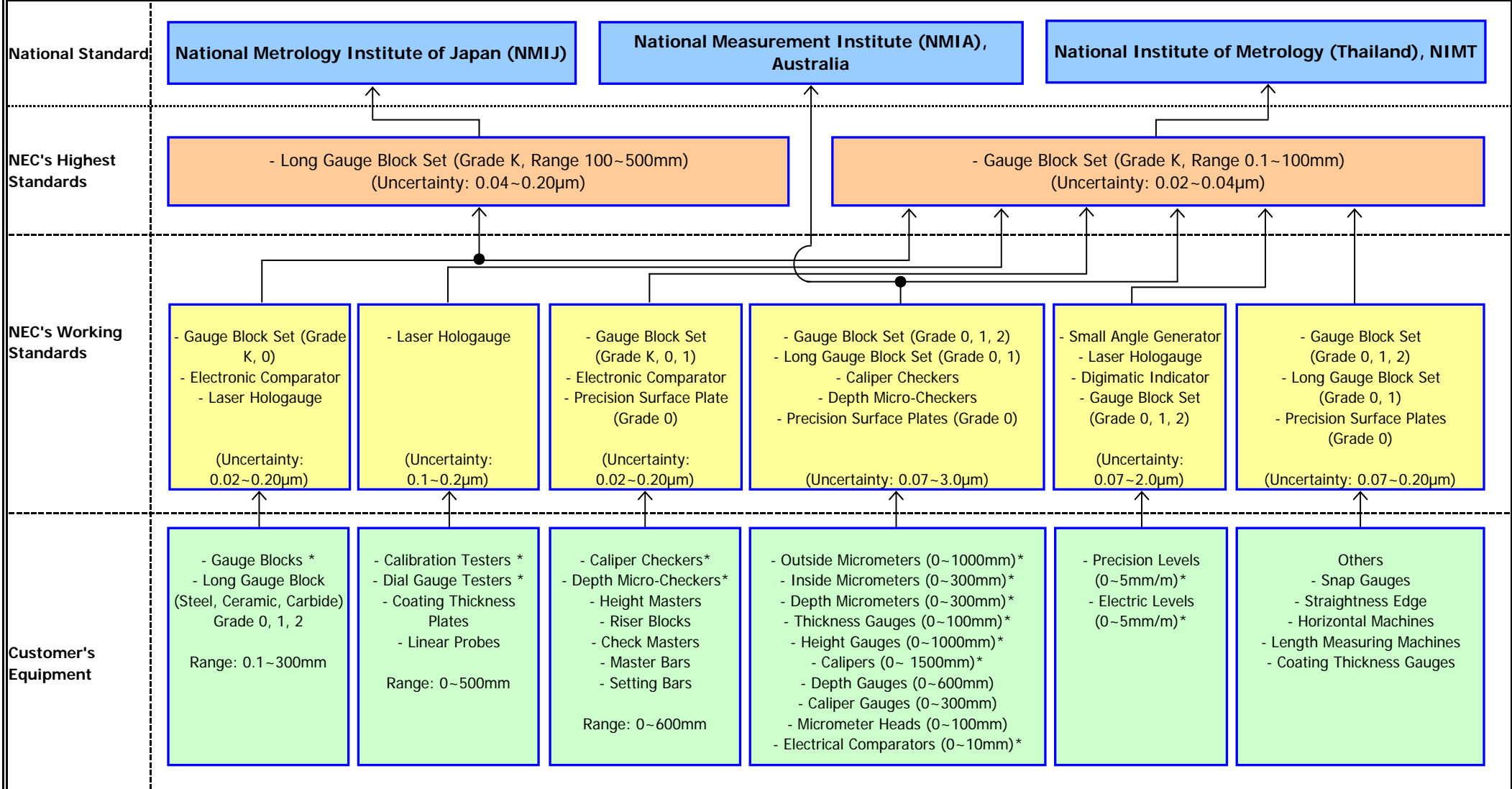
Prepared by: (TM)	Approved by: (TM Leader)
Date: 02-Mar-09	Date: 02-Mar-09
Scope: Dimensional Calibration (1)	



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Calibration
 No. 0132



* ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).

Traceability Chart

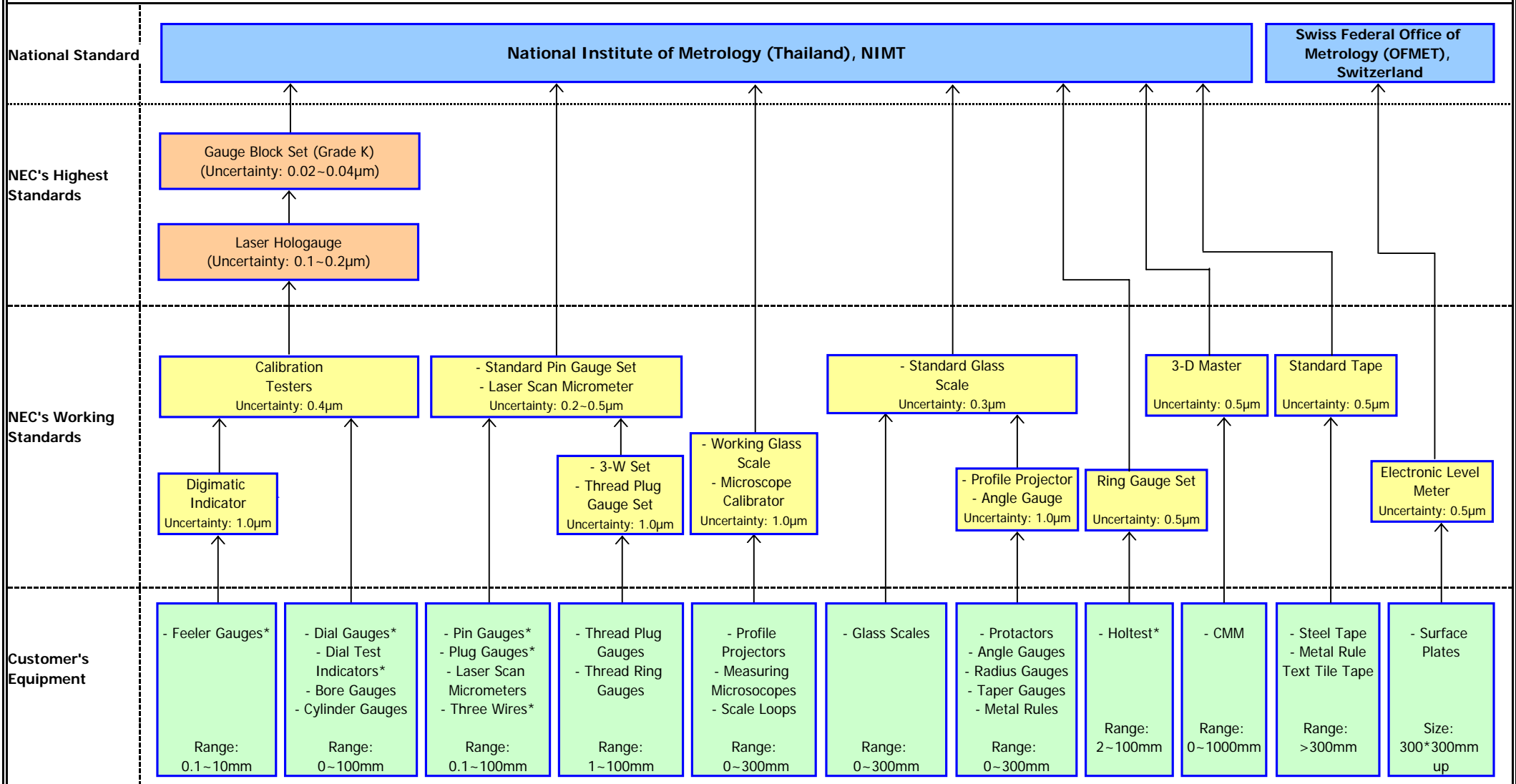
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Calibration
 No. 0132

Prepared by: (TM)	Approved by: (TM Leader)
Date: 02-Mar-09	Date: 02-Mar-09
Scope: Dimensional Calibration (2)	



* ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).

Traceability Chart

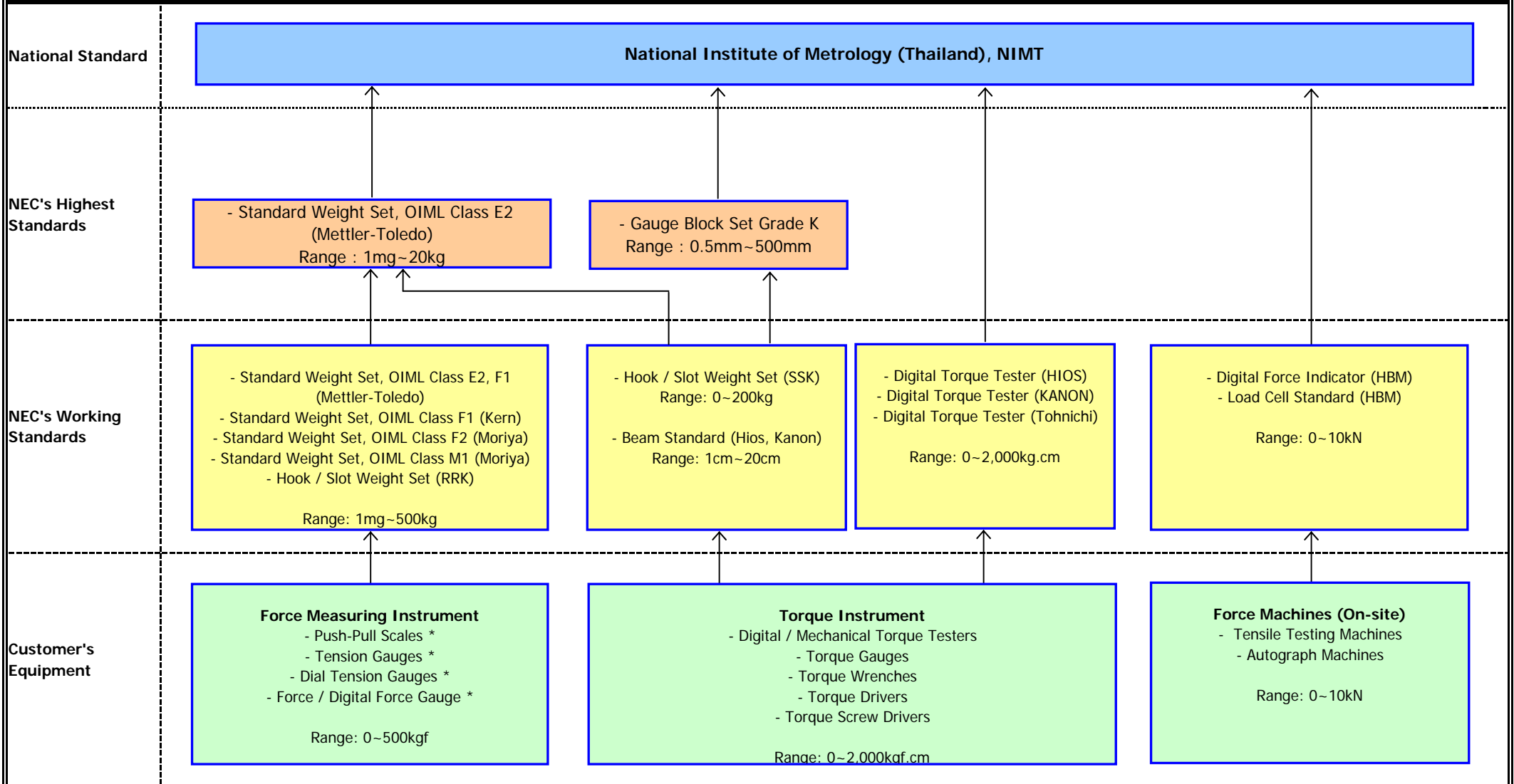
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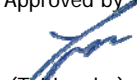
Calibration
 No. 0132

Prepared by: (TM)	Approved by: (TM Leader)
Date: 19-Mar-09	Date: 19-Mar-09
Scope: Force & Torque Calibration	



* ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).

Traceability Chart

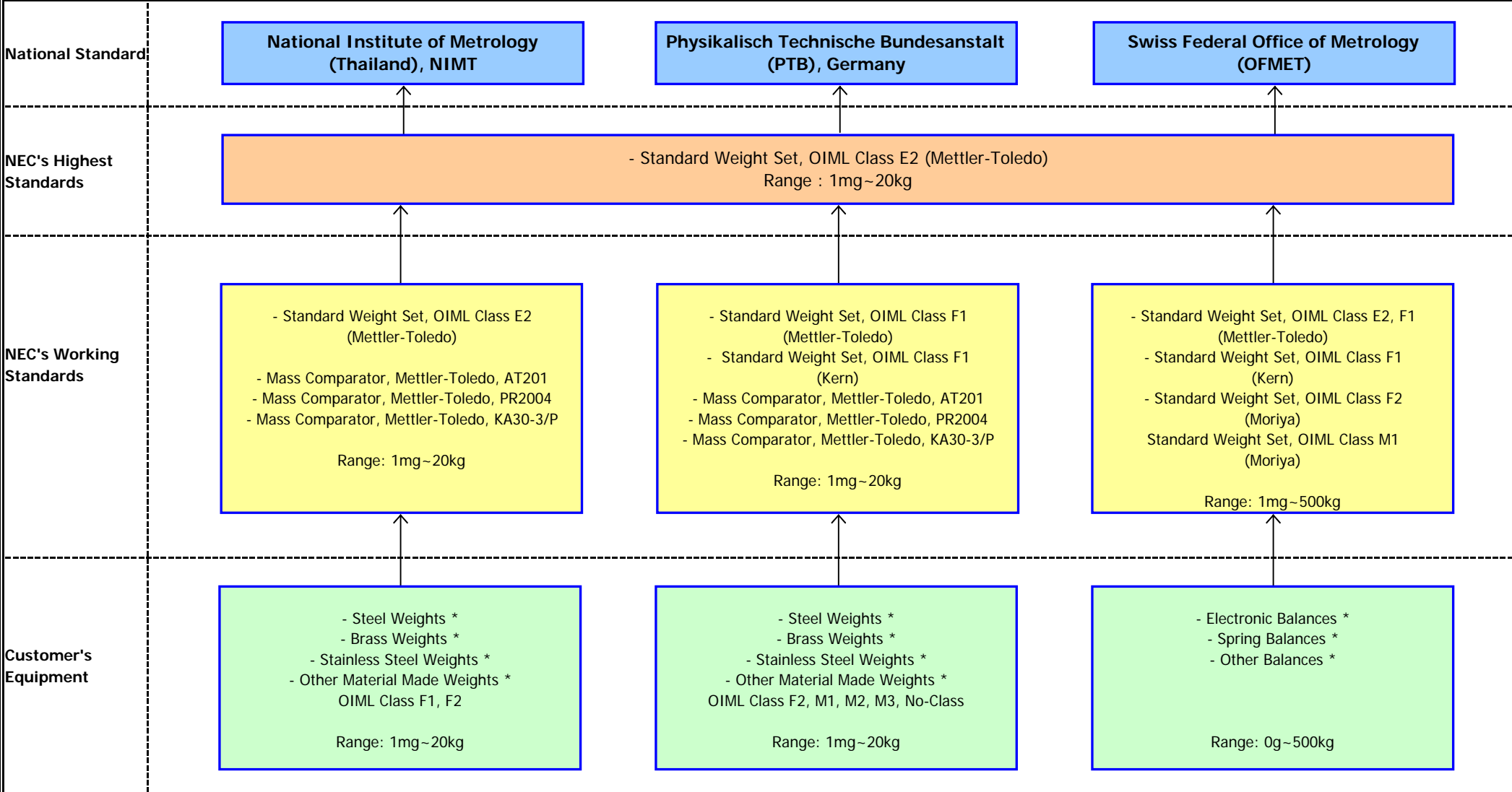
Prepared by:  (TM)	Approved by:  (TM Leader)
Date: 16-Mar-09	Date: 16-Mar-09
Scope: Mass Calibration	



Calibration Center
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Calibration
 No. 0132



* ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).

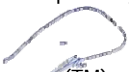

Traceability Chart

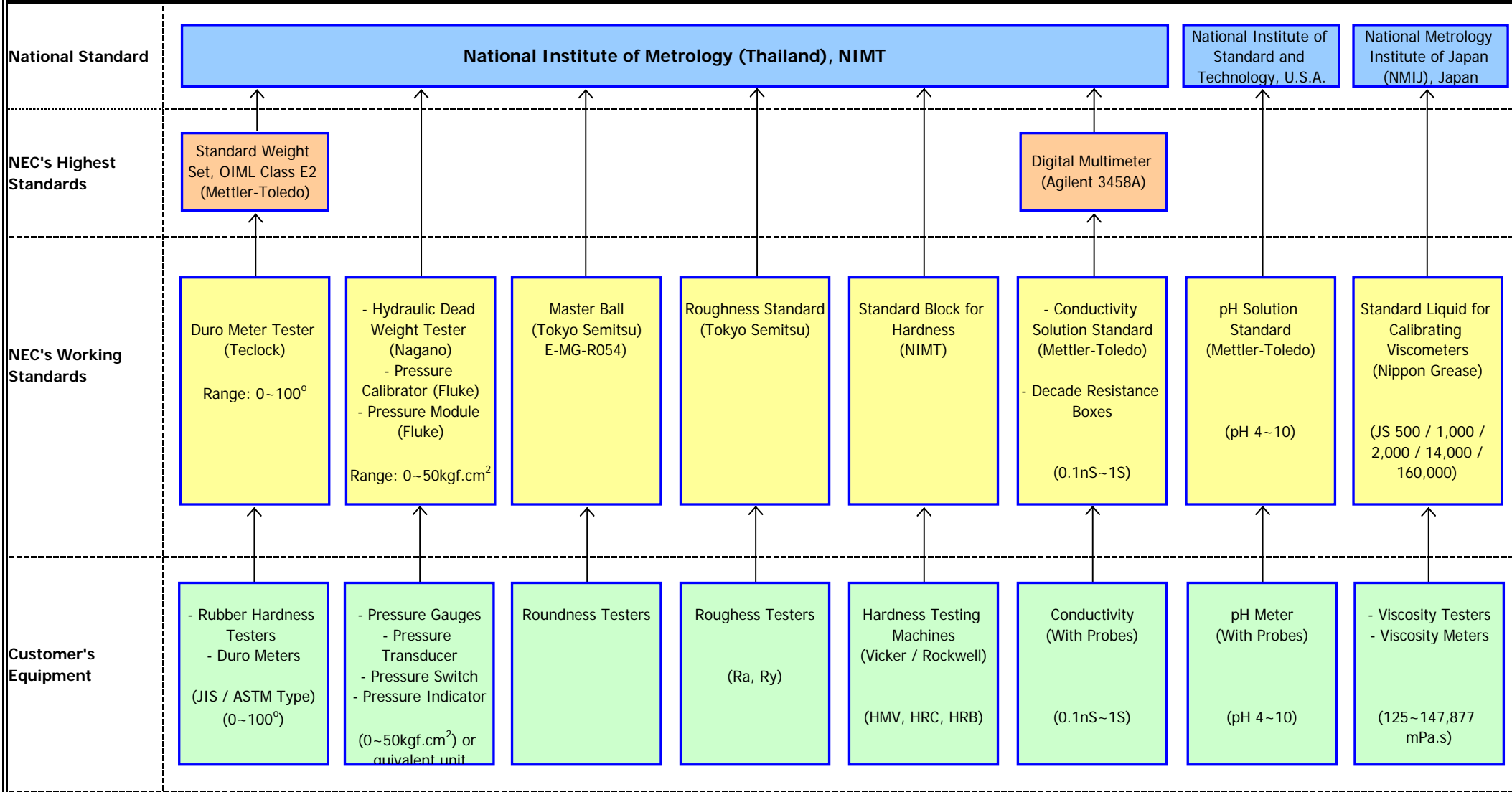
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Calibration
 No. 0132

Prepared by:  (TM)	Approved by:  (TM Leader)
Date: 19-Mar-09	Date: 19-Mar-09
Scope: Other Scopes of Calibration	



Remark:

Traceability Chart

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Prepared by: (TM)	Approved by: (TM Leader)
Date: 20-Mar-09	Date: 20-Mar-09

Scope: **Temperature Calibration**

National Standard

National Institute of Metrology (Thailand), NIMT

NEC's Highest Standards

- SPRT Standard (Hart Scientific, 5626)
 - Type S Standard Thermocouple (High Temp.)
 - High Precision Thermo-Hygrometer (Fluke 1621A)

- Multi-Function Calibrator (Fluke 5720A)
 - DCV Standard (Fluke 732B)

NEC's Working Standards

Standard Sensors and Thermometers:

- PRT Standard Sensor (Asahi), Pt-100
- PRT Standard Sensor (Anritsu), Pt-100
- PRT Standard Sensor (Netsushin), Pt-100
- Type S Thermocouple (High Temp.)
- Type T Thermocouple Set (RS)
- High Precision LIG Thermometers (Nippon Kei)
- Black Stack Thermometer (Hart 1560, 2562)
- Reference Junction Set (Type E, J, K, N, R, S, T)
- Data Logger With RTD Sensor (Agilent 34970A)
- Hybrid Recorder With Type T Sensors (Yokogawa)
- Digital Thermometer (Yokogawa 7563-21)
- Humidity Transmitters (Rense)

Temperature Sources:

- Dry Block Calibrator (Hart Scientific, 9105)
- Dry Block Calibrator (Hart Scientific, 9122A)
- Surface Calibrator (Anritsu ACSII)
- Liquid Bath (Jubalo)
- Micro Bath (Hart Scientific, 6102 7103)
- Temperature / Humidity Controlled Chamber (Espec, PR1KP)

Standard Simulators:

- Multi-Product calibrators (Fluke 5520A)
- Process Calibrator (Fluke 744)

Standard Indicators:

- Digital Multimeter (Agilent 3458A)
- Digital Multimeter (Fluke 8846A)

Customer's Equipment

Temperature Sensors:

- Thermocouple Sensors *
- Thermocouple Extension Wire* (Type E / J / K / N / R / S / T)
- RTD Sensors *

Range: -20°C~700°C

Thermometers:

- Liquid-in-glass Thermometers *
- Thermometer With Sensors * (Analog / Digital)
- Recorder With Sensors *
- Surface Thermometers

Range: -20°C~700°C

Temperature Sources:

- Dry Block Calibrators *
- Liquid Bath *
- Chambers, Oven *
- Incubators, Autoclave *

Range: -40°C~1,000°C

Thermo-Hygro:

- Thermo-Hygrographes
- Thermo-Hygrometers (Analog / Digital)
- Humidity Transmitter

Range: Tem. -20°C~50°C
 Hum. 20%~90%rh

Temperature Indicators / Simulators:

- Hybrid Recorders *
- Reflow / Soldering Testers *
- Data Logger / Thermometer *
- Process Calibrators *
- Temperature Calibrators *

Range: TC all type, RTD all type

Remark: * ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).