# IAEA/SSDL Intercomparison of therapy level ionization chamber calibration factors

## WORKSHEET to report AIR KERMA CALIBRATION FACTOR

### Part A. Information on the participant

| Name of the SSDL: |  |
| Head of the SSDL: |  |
| Contact person: |  |
| Return address: |  |

| Tel.no: |  |
| Fax no: |  |
| e-mail: |  |

**Data on the transfer chamber:**

Used with electrometer:

| Type (=model): |  |
| Serial No: |  |
| Polarizing voltage (magnitude and the sign of the charge collected): |  |

### Part B. Check source measurement for the participating chamber

| Check source type: |  |
| Serial No: |  |
| Check source reading normalized to 20°C and 101.3 kPa: |  |
| Date of Carried measurement: |  |
| out by: |  |
| Signed: |  |

### Part C. Air kerma calibration before sending the chamber to the IAEA

**Data on your standard chambers:**

| Type of chamber: |  |
| Serial no: |  |
| Calibrated at: |  |
| (name of the calibration laboratory) |  |
| Calibration date: |  |

**Calibration data for the transfer chamber:**

Air kerma rate: _______ mGy/s

Reading (current or scale div/unit time) for the chamber calibrated (Corr. for temperature, pressure and recombination): _______

Air kerma calibration factor $N_K = $ _______

(at 20°C and 101.3 kPa): _______

Estimated combined uncertainty of $N_K$, %: _______

(1 std) _______

| Date of Carried calibration: |  |
| out by: |  |
| Signed: |  |
Part D. Check source measurement for the participating chamber

Check source reading normalized to 20°C and 101.3 kPa: ______________________

Date of measurement: __________ Carried out by: ___________________________ Signed: ___________________________

Part E. Air kerma calibration after the return of the chamber from the IAEA

*Calibration data for the transfer chamber:*

Air kerma rate: __________________________ mGy/s

Reading (current or scale div/unit time) for the chamber calibrated: __________________________

Air kerma calibration factor \( N_{Kc} \) (Corr. for temperature, pressure and recombination): __________________________

Estimated combined uncertainty of \( N_{Kc} \), %: __________________________

(at 20°C and 101.3 kPa):

Date of calibration: __________ Carried out by: ___________________________ Signed: ___________________________

ADDITIONAL INFORMATION:

(Please use this space to report any deviations from the recommended procedures or any other information relevant to the above procedures)

Mailing address for all communications regarding this intercomparison:

SSDL Project Officer  
Dosimetry and Medical Radiation Physics Section  
International Atomic Energy Agency  
Wagramer Strasse 5  
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AUSTRIA

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Fax: + 43 1 2600 7  
Tel: +43 1 2600 21653
IAEA/SSDL Intercomparison of therapy level ionization chamber calibration factors

WORKSHEET to report
ABSORBED DOSE TO WATER CALIBRATION FACTOR

Part A. Information on the participant

Name of the SSDL: ______________________________________
Head of the SSDL: ______________________________________
Contact person: ______________________________________

Return address: ______________________________________

Tel.no: __________________________ e-mail: ________________________
Fax no: __________________________

Data on the transfer chamber:

Used with electrometer:

Type (=model): __________________________ Type: __________________________
Serial No: __________________________ Serial No: __________________________
Polarizing voltage (magnitude and the sign of the charge collected): __________________________

Part B. Check source measurements for the participating chamber

Check source type: __________________________ Serial No: __________________________

Check source reading normalized to 20°C and 101.3 kPa: __________________________

Date of Carried measurement: __________ out by: __________________________ Signed: __________________________

Part C. Absorbed dose to water calibration before sending the chamber to the IAEA

Data on your standard chambers:

<table>
<thead>
<tr>
<th>Reference standard</th>
<th>Working standard</th>
</tr>
</thead>
</table>

Type of chamber: __________________________
Serial no: __________________________
Calibrated at: __________________________
(name of the calibration laboratory)
Calibration date: __________________________

Calibration data for the transfer chamber:

Absorbed dose rate to water: __________________________ mGy/s
Reading (current or scale div/unit time) for the chamber calibrated (Corr. for temperature, pressure and recombination):
Absorbed dose to water calibration factor $N_{D,w}$ (at 20°C and ' __________________________

Estimated combined uncertainty of $N_{D,w}$, %: __________________________ (1 std)

Date of Carried calibration: __________ out by: __________________________ Signed: __________________________
## Part D. Check source measurement for the participating chamber

Check source reading normalized to 20°C and 101.3 kPa: 

<table>
<thead>
<tr>
<th>Date of measurement</th>
<th>Carried out by</th>
<th>Signed</th>
</tr>
</thead>
</table>

## Part E. Absorbed dose to water calibration after return of the chamber from the IAEA

*Calibration data for the transfer chamber:*

<table>
<thead>
<tr>
<th>Reading (current or scale div/unit time) for the chamber calibrated (Corr. for temperature, pressure and recombination):</th>
<th>Absorbed dose to water calibration factor $N_{D,w}$ (at 20°C and 101.3 kPa):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Estimated combined uncertainty of $N_{D,w}$, %: (1 stv)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of calibration</th>
<th>Carried out by</th>
<th>Signed</th>
</tr>
</thead>
</table>

## ADDITIONAL INFORMATION:

(Please use this space to report any deviations from the recommended procedures, the Code of Practice for dosimetry which you applied in case you determined absorbed dose rate to water by calculation from air kerma, or any other information relevant to the procedures)

Mailing address for all communications regarding this intercomparison:

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International Atomic Energy Agency  
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AUSTRIA

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