

**Federal Service on Customers' Rights Protection and Human  
Well-being Surveillance  
Federal State Healthcare Institution  
"Center of Hygiene and Epidemiology for Moscow Region"  
Laboratory Testing Center (LTC)**

Accreditation certificate No. FC3H.RU.IQOA.023 of 21.11.02, valid until 21.11.07 State register No.

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License of the Federal Service for Surveillance in Healthcare and Social Development No. 99-01-002723  
of 08.09.05, valid until 08.09.10

2 Semashko Street, Mytishchi, Moscow Region Telephone: 586-12-11 Fax: 586-43-24 E-mail: centr@mosoblsses.ru  
INN 5029081629 OGRN 1055005109147

**REPORT ON RADIATION INSPECTION  
OF DOMODEDOVO TERMINAL FACILITIES**

No. 680-3-06 of 03 December 2006

(illegible) Department for Moscow Region of Federal Service on Customers' Rights Protection and Human Well-being Surveillance  
Object inspected: Domodedovo Terminal, vehicles, aircrafts, etc.  
Object location: Domodedovo, Moscow Region  
Objective of inspection: clarification of radiation situation within the territory of Domodedovo terminal, vehicles, aircrafts, etc. according to SP 2.6.1.758-99 Radiation Safety Norms (NRB-99).

| Instrument type | Serial No. | Certificate State Calibration |            |           | Fundamental error of measurement |
|-----------------|------------|-------------------------------|------------|-----------|----------------------------------|
|                 |            | Number                        | Valid till | Issued by |                                  |
| СРП-68-01       | 5677       | 03.76.116-42                  | 15.03.2007 | FGU MCSM  | 10%                              |
| ДРГ-01Т         | 1639       | 03.76.171.2-11                | 06.07.2007 |           | 25%                              |
| МКС-01Р         | 525        | 03.76092.6-26                 | 07.04.2007 |           | 20%                              |

Test method: search in the "total listening" mode, measuring gamma radiation exposure rate in the building, aboard aircrafts and within other facilities; detecting radioactive contamination on different surfaces.

(illegible) for test method:

Guidelines on Measuring Gamma Background in Cities and Towns (Pedestrian Method) 3255 of 09.04.85. USSR Ministry of Health.

Methodical Guidelines MU 2.6.1.715-98 Carrying Out Radiation and Hygienic Inspections in Residential and Public Buildings.

Methodical Guidelines MUK 2.6.1.016-99 Controlling Radioactive Nuclide Contamination of Surfaces of Working Premises, Equipment, Vehicles and other Objects

**INSPECTION RESULTS**

Equivalent dose rate of outdoors gamma radiation (gamma background)

| Average value, Ho, cp., mSv/h<br>0,09 (9 mkr/h) | Minimum value, Ho, mSv/h<br>0,07 (7 mkr/h) |
|---|--|
|---|--|

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COM00204001

## Equivalent dose rate of outdoors gamma radiation

| MEASURING POINT   | Search device          | gamma radiation exposure rate, uR/h |               |               |
|---|------------------------|-------------------------------------|---------------|---------------|
|   | Readings interval, 1/s | Measurement results                 | Maximum value | Average value |
| <b>Aircraft: Boeing-737-400</b><br><b>(Tail No.: E1-DNM) Flight No.:444</b><br><b>Arrival date and time:</b><br><b>2.12.06, 19<sup>30</sup></b><br><b>Transaero Airlines business class cabin:</b><br><b>RH side</b>                          | 5-7                    | 6, 7, 5, 6, 5                       | 7             | 4,8           |
|   |                        | 6, 5, 7, 8, 6                       | 8             | 6,4           |
|   |                        | 5,7, 6,7,6                          | 7             | 6,2           |
|   |                        | 6,5, 8, 7,6                         | 8             | 6,4           |
|   |                        | 6, 5, 6, ,5, 5                      | 6             | 5,4           |
|   | 5-7                    | 7, 5, 6, 5, 5                       | 7             | 5,6           |
|   |                        | 5, 6, 6, 6, 6                       | 6             | 5,8           |
|   |                        | 6, 5, 8, 7, 6                       | 8             | 6,4           |
|   |                        |                                     |               |               |
|   |                        |                                     |               |               |
| <b>economy class cabin</b><br><b>RH side</b>  | 5-8                    | 7, 5, 6, 5, 5                       | 7             | 5,6           |
|   |                        | 7, 5, 6, 5, 5                       | 7             | 5,6           |
|   |                        | 5, 6, 6, 6, 6                       | 6             | 5,8           |
|   |                        | 6, 5, 8, 7, 6                       | 8             | 6,4           |
|   |                        | 5, 8, 5, 7, 6                       | 8             | 6,2           |
|   | 5-7                    | 6, 7, 5, 6, 5                       | 7             | 5,8           |
|   |                        | 6, 5, 7, 8, 6                       | 8             | 6,4           |
|   |                        | 6, 6, 7, 7, 5                       | 7             | 6,2           |
|   |                        | 7, 7, 5, 5, 6                       | 7             | 6,0           |
|   |                        | 5, 5, 6, 5, 5                       | 6             | 5,2           |
| <b>Lavatory (LH side, tail section)</b><br><b>Compartment of removable galley-<br/>buffet equipment</b><br><b>(tail section)</b>  | 3-6                    | 7, 5, 6, 5, 5                       | 6             | 5,6           |
|   |                        | 7, 5, 6, 5, 5                       | 6             | 5,6           |
|   |                        | 5, 6, 6, 6, 5                       | 6             | 5,6           |
|   |                        | 6, 5, 8, 7, 6                       | 8             | 6,4           |
|   |                        | 6, 5, 8, 7, 6                       | 8             | 6,4           |
|   | 2-6                    | 6, 5, 8, 7, 6                       | 8             | 6,4           |
|   |                        | 6, 5, 6, 9, 5                       | 9             | 6,2 .         |
|   |                        |                                     |               |               |
|   |                        |                                     |               |               |
|   |                        |                                     |               |               |
| <b>Aircraft: Boeing-763</b><br><b>(Tail No.: GBNWZ)</b><br><b>Flight No.: 872</b><br><b>Arrival date and time:</b><br><b>02.12.06, 15<sup>35</sup></b><br><b>British Airways Airlines</b><br><b>business class cabin:</b><br><b>- RH side</b> | 5-7                    | 6, 7, 5, 6, 5                       |               | 5,8           |
|   |                        | 6, 5, 7, 8, 6                       |               | 6,4           |
|   |                        | 5, 7, 6, 7, 6                       |               | 6,2           |
|   |                        | 6, 5, 8, 7, 6                       |               | 6,4           |
|   |                        | 7, 5, 6, 5, 5                       |               | 5,6           |

|  |     |                |    |     |
|--|-----|----------------|----|-----|
|  |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
|  |     | 5, 9, 5, 5, 7  | 9  | 6,2 |
|  |     | 8, 5, 7, 6, 6  | 7  | 6,4 |
|  |     | 5, 5, 6, 7, 8  | 8  | 6,2 |
|  |     | 6, 5, 9, 8, 7  | 9  | 7,0 |
| LH side  | 5-7 | 6, 5, 8, 5, 5  | 8  | 5,8 |
|  |     | 7, 8, 6, 5, 5  | 8  | 6,2 |
|  |     | 9, 7, 6, 6, 5  | 8  | 6,6 |
|  |     | 5, 5, 8, 7, 7  | 9  | 6,4 |
|  |     | 7, 7, 5, 7, 8  | 8  | 6,8 |
|  |     | 5, 5, 7, 5, 6  | 7  | 5,6 |
|  |     | 8, 8, 6, 9, 5  | 9  | 7,2 |
|  |     | 5, 5, 6, 5, 5  | 6  | 5,2 |
|  |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|  |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
| - middle   | 3-6 | 7, 5, 6, 9, 5  | 9  | 6,4 |
|  |     | 5, 8, 5, 7, 6  | 8  | 6,2 |
|  |     | 6, 6, 7, 7, 5  | 7  | 6,2 |
|  |     | 5, 6, 7, 6, 6  | 6  | 6,0 |
|  |     | 5, 7, 6, 7, 6  | 7  | 6,2 |
|  |     | 8, 6, 7, 6, 6  | 8  | 6,4 |
|  |     | 7, 8, 6, 5, 5  | 8  | 6,2 |
|  |     | 7, 7, 5, 7, 8  | 8  | 6,8 |
|  |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|  |     | 6, 5, 8, 7, 6  | 8  | 5,0 |
| - Lavatory (хвостовая часть)   | 5-6 | 7, 8, 6, 5, 5  | 8  | 6,2 |
| Aircraft:<br>Aerobus 320<br>(Tail No.: GMIDO) Flight No.: RU-891<br>Arrival date and time: 02.12.06, 16 <sup>-20</sup><br>BM1 Airlines<br>- Jet bridge Stand No.14                           |     |                |    |     |
|  | 3-7 | 6, 5, 7, 8, 6  | 8  | 6,4 |
|  |     | 5, 7, 6, 7, 6  | 7  | 6,2 |
|  |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
|  |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|  |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
| Aircraft:<br>Boeing-737<br>(Tail No.: XK)<br>Flight No.: 324 Arrival date and time:<br>02.12.06, 16 <sup>-40</sup> Vienna-Moscow<br>Transaero Airlines business class<br>cabin:<br>- RH side |     |                |    |     |
|  | 5-7 | 6, 7, 8, 9, 6  | 9  | 7,2 |
|  |     | 7, 6, 8, 8, 6  | 8  | 7,0 |
|  |     | 5, 6, 5, 7, 9  | 9  | 6,4 |
|  |     | 7, 8, 6, 6, 7  | 8  | 6,8 |
| - LH side  | 5-7 | 10, 8, 6, 6, 5 | 10 | 7,0 |
|  |     | 8, 7, 9, 5, 5  | 9  | 6,8 |
|  |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|  |     | 5, 5, 7, 5, 6  | 7  | 5,6 |
| economy class cabin  |     |                |    |     |

|   |     |                |    |     |
|---|-----|----------------|----|-----|
| - RH side   | 5-8 | 8, 7, 9, 5, 5  | 9  | 6,8 |
|   |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
|   |     | 5, 7, 6, 7, 6  | 7  | 6,2 |
|   |     | 8, 9, 7, 8, 5  | 9  | 7,4 |
|   |     | 10, 6, 8, 6, 7 | 10 | 7,4 |
|   |     | 8, 9, 7, 10, 8 | 10 | 8,4 |
|   |     | 7, 8, 6, 6, 7  | 8  | 6,8 |
| - LH side   | 5-7 | 8, 7, 9, 5, 5  | 9  | 6,8 |
|   |     | 8, 7, 9, 5, 8  | 9  | 7,4 |
|   |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|   |     | 6, 5, 8, 7, 6  | 7  | 6,4 |
|   |     | 8, 5, 7, 6, 6  | 8  | 6,4 |
|   |     | 9, 7, 6, 6, 5  | 9  | 6,6 |
|   |     | 6, 5, 9, 8, 7  | 9  | 7,0 |
| Lavatory (LH side, tail section)                                | 3-6 | 8, 7, 9, 5, 5  | 9  | 6,8 |
| Compartment of removable galley-buffet equipment (tail section) | 2-6 | 8, 9, 1, 8, 5  | 9  | 7,4 |
| Aircraft:   |     |                |    |     |
| Аэробус 320-200 (A 322)   |     |                |    |     |
| (Tail No.: GEVUD) Flight No.: 880                               |     |                |    |     |
| Arrival date and time: 03.12.06, 03- <sup>58</sup>              |     |                |    |     |
| British Airways Airlines  |     |                |    |     |
| - Jet bridge Stand No. 14                                       | 3-7 | 6, 5, 7, 8, 6  | 8  | 6,4 |
|   |     | 5, 7, 6, 7, 6  | 7  | 6,2 |
|   |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
|   |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|   |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
| business class cabin:   |     |                |    |     |
| - RH side   | 5-7 | 6, 7, 5, 6, 5  | 7  | 5,8 |
|   |     | 6, 5, 7, 8, 6  | 8  | 6,4 |
|   |     | 5, 7, 6, 7, 6  | 7  | 6,2 |
|   |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
| -   |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|   |     | 6, 5, 8, 7, 6  | 8  | 6,4 |
|   |     | 5, 9, 5, 5, 7  | 9  | 6,2 |
|   |     | 8, 5, 7, 6, 6  | 7  | 6,4 |
|   |     | 5, 5, 6, 7, 8  | 8  | 6,2 |
|   |     | 6, 5, 9, 8, 7  | 9  | 7,0 |
| - LH side   | 5-7 | 6, 5, 8, 5, 5  | 8  | 5,8 |
|   |     | 7, 8, 6, 5, 5  | 8  | 6,2 |
|   |     | 9, 1, 6, 6, 5  | 8  | 6,6 |
|   |     | 5, 5, 8, 7, 7  | 9  | 6,4 |
|   |     | 7, 7, 5, 7, 8  | 8  | 6,8 |
|   |     | 5, 5, 7, 5, 6  | 7  | 5,6 |
|   |     | 8, 8, 6, 9, 5  | 9  | 7,2 |
|   |     | 5, 5, 6, 5, 5  | 6  | 5,2 |
|   |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
|   |     | 7, 5, 6, 5, 5  | 7  | 5,6 |
| - middle  | 3-6 | 7, 5, 6, 9, 5  | 9  | 6,4 |
|   |     | 5, 8, 5, 7, 6  | 8  | 6,2 |

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|                         |     |                                     |   |     |
|-------------------------|-----|-------------------------------------|---|-----|
|                         |     | 6, 6, 7, 7, 5                       | 7 | 6,2 |
|                         |     | 5, 6, 7, 6, 6                       | 6 | 6,0 |
|                         |     | 5, 7, 6, 7, 6                       | 7 | 6,2 |
|                         |     | 8, 5, 7, 6, 6                       | 8 | 6,4 |
|                         |     | 7, 8, 6, 5, 5                       | 8 | 6,2 |
|                         |     | 7, 7, 5, 7, 8                       | 8 | 6,8 |
|                         |     | 7, 5, 6, 5, 5                       | 7 | 5,6 |
|                         |     | 6, 5, 8, 7, 6                       | 8 | 5,0 |
| Lavatory (tail section) | 5-6 | 7, 8, 6, 5, 5                       | 8 | 6,2 |
| <b>Total:</b>           |     | <b>120 points, 600 measurements</b> |   |     |

gamma radiation exposure rate exceeds the gamma background within the area  
maximum by:  $\mu\text{R/h} - 9 \mu\text{R/h} = 1.0 \mu\text{R/h}$  ( $0,01 \mu\text{Sv/h}$ )

### Radiation inspection of various surfaces (contact method, swabbing)

| Measurement point  | Measurement type                            |  |                                   |  |
|--|---|--|-----------------------------------|--|
|  | Contact method<br>(No. of<br>measurements ) | Result,<br>freq/(min*sm <sup>2</sup> ) | Swabs (No. and<br>sampling point) | Result,<br>freq/(min*sm <sup>2</sup> ) |
| <b>Aircraft: Boeing-737-400</b><br>(Tail No.: EI-DNM) Flight No.:<br>444<br>Arrival date and time: .12.06,19-<br>Transaero Airlines<br>business class cabin: RH side;<br>seat rows Nos. 1-4) | 24  | 0                                      | 5 (seats armrests)                | 0                                      |
| LH side; (seat rows Nos. 1-4)  | 24  | 0                                      | 5 (seats armrests)                | 0                                      |
| Floor (row No. 1)  | 4   | 0                                      | 1                                 | 0                                      |
| Floor(row No. 3)   | 4   | 0                                      | 1                                 | 0                                      |
| <b>Economy class cabin:</b><br>RH side<br>(Rows Nos. 10-12, 14,30)   | 120   | 0                                      | 20<br>(seats armrests)            | 0                                      |
| LH side<br>Rows Nos. 10-12, 14-30)   | 120   | 0                                      | 20<br>(seats armrests)            | 0                                      |
| <b>Seat "D" row No. 26:</b><br>seat back   | 15  | 4-88                                   | 2                                 | 0,7-2,0                                |
| seat cushion   | 9   | 9-21                                   | 2                                 | 0,3-1,4                                |
| armrests   | -   | -                                      | 4                                 | 0                                      |
| floor  | -   | -                                      | 2                                 | 0                                      |
| <b>Seat "D" row No. 25:</b><br>seat back (rear side)   | 6   | 9-30                                   | 2                                 | 0-0,4                                  |
| armrests   | -   | -                                      | 3                                 | 0                                      |
| floor  | -   | -                                      | 3                                 | 0                                      |
| <b>Seat "D" row No. 26 (after<br/>removal):</b><br>seat back   | 15  | 0                                      | 2                                 | 0                                      |

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|   |    |   |                                |   |
|---|----|---|--------------------------------|---|
| <b>8</b>  |    |   |                                |   |
| seat cushion  | 9  | 0 | 2                              | 0 |
| armrests  | -  | - | 4                              | 0 |
| floor   | -  | - | 2                              | 0 |
| <b>Seat "D" row No. 25 (after removal):</b>           |    |   |                                |   |
| seat back (rear side)                                 | 6  | 0 | 2                              | 0 |
| armrests  | -  | - | 3                              | 0 |
| floor   | -  | - | 3                              | 0 |
| baggage rack (upper)                                  | 1  | 0 | 1                              | 0 |
| Floor between rows Nos.24                             | 3  | 0 | -                              | - |
| Floor between rows 25                                 | 3  | 0 | -                              | - |
| Floor between seats "C" and "D" rows Nos. 24-27       | 4  | 0 | -                              | - |
| <b>Lavatory (LH side, tail section):</b>              |    |   |                                |   |
| closet lid  | 1  | 0 | 1                              | 0 |
| closet bowl   | 1  | 0 | 1                              | 0 |
| closet flashing button                                | 1  | 0 | 1                              | 0 |
| sink  | -  | - | 1                              | 0 |
| Sink faucet   | -  | - | 1                              | 0 |
| <b>Aircraft: Boeing-763</b>                           |    |   |                                |   |
| <b>Tail No.: GBNWZ</b>                                |    |   |                                |   |
| <b>Flight No.: 872 Arrival date and time:</b>         |    |   |                                |   |
| <b>2.06.15-<sup>35</sup> British Airways Airlines</b> |    |   |                                |   |
| business class cabin: cabin                           |    |   | 10                             |   |
| RH side   | 15 | 0 | (seats armrests)               | 0 |
| LH side   | 15 | 0 | 10                             | 0 |
|   |    |   | (seats armrest)                |   |
| middle  | 15 | 0 | 10                             | 0 |
|   |    |   | (seats armrest)                |   |
| Lavatory  | 1  | 0 | 1 (door handle)                | 0 |
|   |    |   | 1 (closet lid) 1 (closet bowl) |   |
| <b>Aircraft: Aerobus 320</b>                          |    |   |                                |   |
| <b>Tail No.: GMIDO) Flight</b>                        |    |   |                                |   |
| <b>No.: BD-891 Arrival date and time:</b>             |    |   |                                |   |
| <b>12.06.16-<sup>20</sup> BMI Airlines</b>            |    |   |                                |   |
| Jet bridge Stand No 14                                | 3  | 0 | 1 (RH hand railings)           |   |
|   |    |   | 1 (LH hand railings)           |   |
|   |    |   | 3 (floor)                      | 0 |
| <b>Aircraft: Boeing-737</b>                           |    |   |                                |   |

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|  |    |   |                    |   |
|--|----|---|--------------------|---|
| <b>Tail No. XK) Flight No.: 324</b><br><b>Arrival date and time:</b><br><b>2.12.06, 16-40 Vienna-Moscow</b><br><b>Transaero Airlines business class</b><br><b>cabin: (RH side) rows Nos. 1-4)</b>                            |    |   |                    |   |
|  | 8  | 0 | 5 (seats armrests) | 0 |
| LH side ) rows Nos. 1-4)   | 8  | 0 | 5 (seats armrests) | 0 |
| floor (row No. 1)  | 1  | 0 | 1                  | 0 |
| Floor (row No. 3)  | 1  | 0 | 1                  | 0 |
| economy class cabin  | 40 | 0 | 20                 | 0 |
| RH side (rows Nos. 10-12, 14-30)   | 40 | 0 | (seats armrests)   | 0 |
| LH side (rows Nos. 10-12, 14-30)   | 40 | 0 | 20                 | 0 |
|  |    |   | (seats armrests)   |   |
| Lavatory (LH side, tail section)   |    |   |                    |   |
| closet lid   | 1  | 0 | 1                  | 0 |
| Closet bowl  | 1  | 0 | 1                  | 0 |
| closet flashing button   | 1  | 0 | 1                  | 0 |
| sink   | -  | - | 1                  | 0 |
| Sink faucet  | -  | - | 1                  | 0 |
| Airport Handling JSC,<br>aircraft clean-up crew's<br>room  |    |   |                    |   |
| Vacuum cleaners brushes  | 15 | 0 | -                  | - |
| Vacuum cleaners cables   | 36 | 0 | -                  | - |
| dust chambers of Vacuum cleaners<br>Nos. 59-61, 64-67, 69, 70  | 9  | 0 | -                  | - |
| Vacuum cleaners filters  | 5  | 0 | -                  | - |
| shelve stand surfaces  | 7  | 0 | -                  | - |
| Chairs   | 13 | 0 | -                  | - |
| Floor  | 9  | 0 | -                  | - |
| <b>Aircraft: Aerobus 320-200 (A 322)</b><br><b>Tail No. GEVUD) Flight No. : 880</b><br><b>Arrival date and time: 12.06, 03-58</b><br><b>British Airways Airlines</b><br><b>business class cabin: cabin RH</b><br><b>side</b> |    |   |                    |   |
|  | 15 | 0 | 10                 | 0 |
| LH side  | 15 | 0 | (seats armrests)   | 0 |
|  |    |   | 10                 |   |
| Middle   | 15 | 0 | (seats armrests)   | 0 |
|  |    |   | 10                 |   |
|  |    |   | (seats armrests)   | 0 |



|            |                  |   |  |   |
|------------|------------------|---|--|---|
| - lavatory | 1                | 0 | 1 (door handle)<br>1 (water-closet lid)<br>1 (toilet bowl) | 0 |
| Total      | 660 measurements |   | 222 smears   |   |

Background of alpha detector of MKC-01P radiometer - 0-0.1 alpha particles/(min\*cm2)

**Persons that carried out tests:**

Head of Radiological Laboratory, Radiation

Hygiene Doctor, Branch of Federal State

Healthcare Institution "Center of Hygiene and  
Epidemiology for Moscow Region" in Elektrostal,

Noginsk District

/Signature/

L.A. Aleksandrova

Physicist Expert, Branch of Federal State

Healthcare Institution "Center of Hygiene and  
Epidemiology for Moscow Region" in Elektrostal,

Noginsk District

/Signature/

I.G. Petrichenko

Head of Laboratory Testing Center, Federal State

Healthcare Institution "Center of Hygiene and

Epidemiology for Moscow Region"

/Signature/

A.V. Kozlov

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**Conclusion:**

1. The objects inspected meet the requirements of NRB-99 (para. 5.3.3);

- gamma radiation exposure rate exceeds the gamma background within the area maximum by 1.0  $\mu\text{R/h}$  (0.0  $\mu\text{Sv/h}$ ), with the acceptable value being 20  $\mu\text{R/h}$  (0.2  $\mu\text{Sv/h}$ ).

2. Aboard Boeing-737-400 aircraft (tail number E1-DNM, flight number: 444 London-Moscow, arrival date and time: 02.12.2006 19-30), in the economy-class cabin, radiological contamination of seats D in rows 25 and 26 was detected. Maximum value of contamination makes 88 particles/(min\*cm2). These seats were removed as a single section (seats D, E, F) and placed in an isolated room, not accessible for unauthorized persons, for subsequent disposal, which will be followed by identification of radio nuclide composition of the contamination by a specialized organization in accordance with the applicable procedure. After new seats were installed, no radioactive contamination was detected.

**Head of the Laboratory Tests Department,  
Radiation Hygiene Doctor**

/Signature/

A.V. Kozlov

Translated by: Astretsov P.A.

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