

# SAFA

## Safety Assessment of Foreign Aircraft Programme

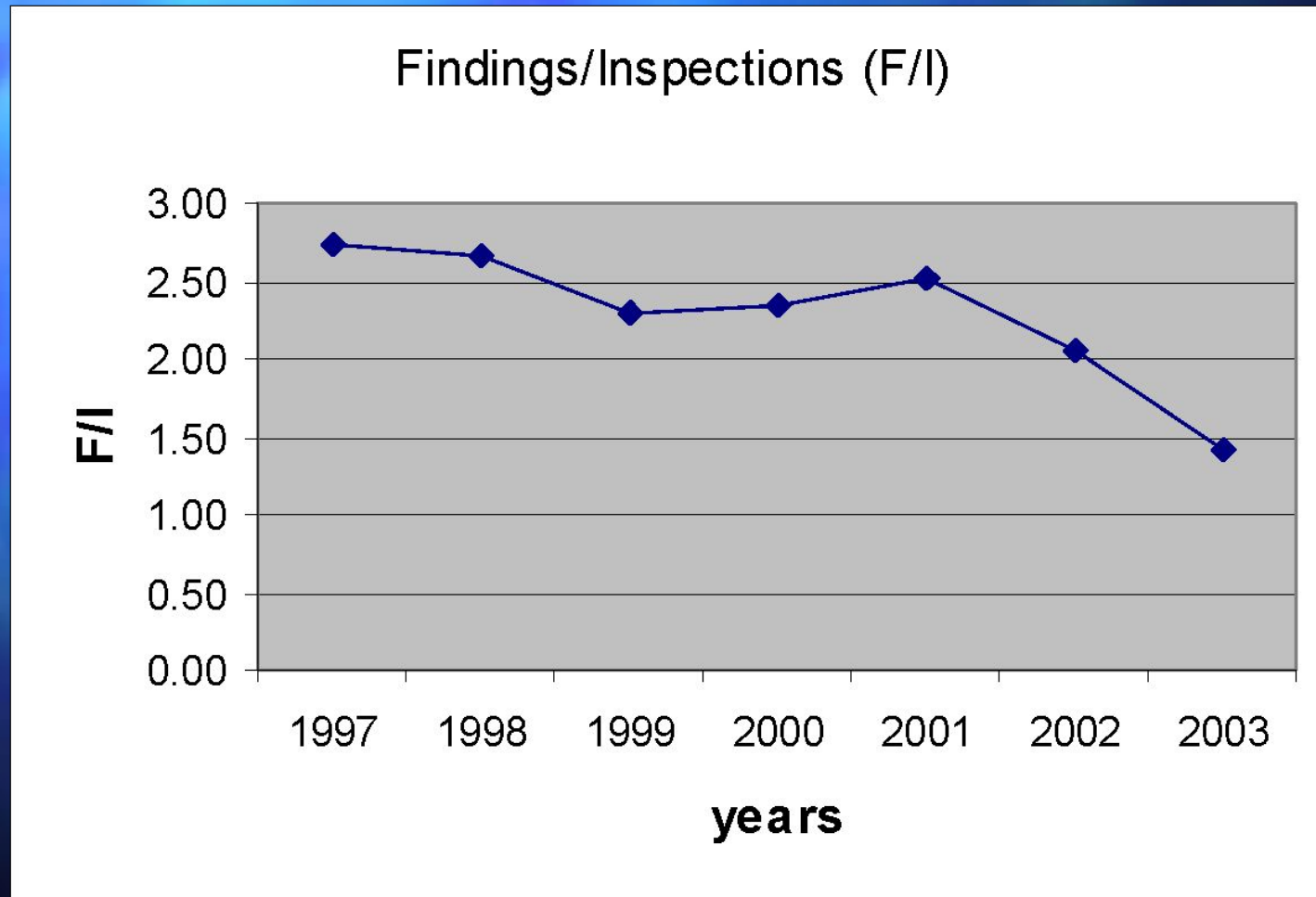


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# SAFA results: Operators Russian Federation

|                    | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Total |
|--------------------|------|------|------|------|------|------|------|------|-------|
| <b>Inspections</b> | 6    | 85   | 140  | 126  | 108  | 142  | 183  | 91   | 881   |
| <b>Findings</b>    | 37   | 233  | 373  | 289  | 252  | 358  | 376  | 128  | 2046  |
| <b>Ratio F/I</b>   | 6.17 | 2.74 | 2.66 | 2.29 | 2.33 | 2.52 | 2.05 | 1.41 | 2.32  |

# SAFA results: Operators Russian Federation



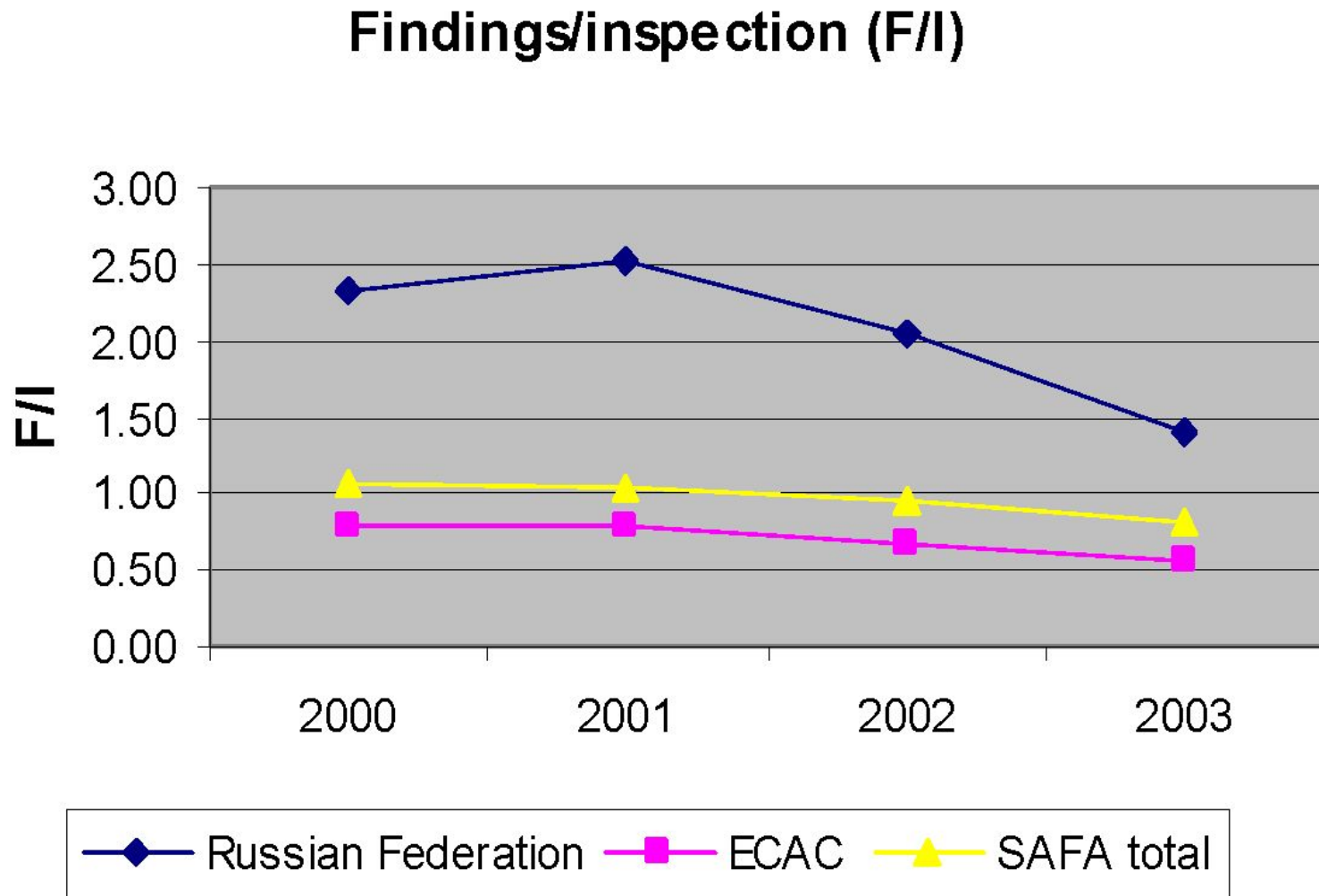
# SAFA results: Operators Russian Federation

| <b>Operator</b>                       | <b>code</b> | <b>Inspections (I)</b> | <b>Findings (F)</b> | <b>F/I</b> |
|---------------------------------------|-------------|------------------------|---------------------|------------|
| <b>AEROFLOT - RUSSIAN INT. AIRL.</b>  | AFL         | 287                    | 569                 | 1.98       |
| <b>AEROFLOT DON/DONAVIA</b>           | DNV         | 21                     | 58                  | 2.76       |
| <b>AEROFREIGHT AIRLINES</b>           | FRT         | 24                     | 83                  | 3.46       |
| <b>AIR ENTERPRISE PULKOVO</b>         | PLK         | 107                    | 259                 | 2.42       |
| <b>SIBERIA AIRLINES</b>               | SBI         | 29                     | 41                  | 1.41       |
| <b>SARATOV AVIATION DIVISION</b>      | SOV         | 12                     | 32                  | 2.67       |
| <b>URAL AIRLINES</b>                  | SVR         | 23                     | 40                  | 1.74       |
| <b>TRANSAERO AIRLINES</b>             | TSO         | 30                     | 64                  | 2.13       |
| <b>ATRAN-AVIATRANS CARGO AIRLINES</b> | VAS         | 27                     | 48                  | 1.78       |
| <b>VOLGA-DNEPR</b>                    | VDA         | 48                     | 64                  | 1.33       |

# SAFA results - comparison

|                   | 2000 |      |      | 2001 |      |      | 2002 |      |      | 2003 |      |      |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| State of Operator | I    | F    | F/I  | I    | F    | F/I  | I    | F    | F/I  | I    | F    | F/I  |
| Russian Fed.      | 108  | 252  | 2.33 | 142  | 358  | 2.52 | 183  | 376  | 2.05 | 91   | 128  | 1.41 |
| ECAC              | 1452 | 1128 | 0.78 | 1759 | 1371 | 0.78 | 2135 | 1459 | 0.68 | 1052 | 588  | 0.56 |
| SAFA total        | 2397 | 2587 | 1.08 | 2729 | 2869 | 1.05 | 3245 | 3073 | 0.95 | 1646 | 1356 | 0.82 |

# SAFA results - comparison



# SAFA results - comparison

|                           | <b>Total (1996-2003)</b> |          |            |
|---------------------------|--------------------------|----------|------------|
| <b>State of Operator</b>  | <b>I</b>                 | <b>F</b> | <b>F/I</b> |
| <b>Russian Federation</b> | 881                      | 2046     | 2.32       |
| <b>ECAC</b>               | 10658                    | 7332     | 0.69       |
| <b>SAFA total</b>         | 17440                    | 17252    | 0.99       |

# Operators – inspections and finding categories

|                                |       | Insp. (I) | Findings (F) |        |        | ratio        |
|--------------------------------|-------|-----------|--------------|--------|--------|--------------|
| operator                       | code  | I         | cat. 1       | cat. 2 | cat. 3 | F(cat.2+3)/I |
| AEROFLOT - RUSSIAN INT. AIRL.  | AFL   | 120       | 75           | 82     | 17     | 0.83         |
| AEROFREIGHT AIRLINES           | FRT   | 23        | 35           | 37     | 10     | 2.04         |
| AIR ENTERPRISE PULKOVO         | PLK   | 53        | 39           | 75     | 10     | 1.60         |
| PSKOV STATE AVIATION ENT.      | PSW   | 13        | 9            | 5      | 0      | 0.38         |
| SIBERIA AIRLINES               | SBI   | 16        | 4            | 20     | 1      | 1.31         |
| ATRAN-AVIATRANS CARGO AIRLINES | VAS   | 17        | 11           | 13     | 14     | 1.59         |
| VOLGA-DNEPR                    | VDA   | 24        | 9            | 12     | 1      | 0.54         |
|                                | Total | 433       | 345          | 514    | 127    | 1.48         |



# Comparison – inspections and finding categories

|                    | Insp. (I) | Findings (F) |        |        | ratio                 |
|--------------------|-----------|--------------|--------|--------|-----------------------|
| State of operator  | I         | cat. 1       | cat. 2 | cat. 3 | $F(\text{cat.2+3})/I$ |
| Russian Federation | 433       | 345          | 514    | 127    | 1.48                  |
| ECAC               | 5355      | 1994         | 1511   | 453    | 0.37                  |
| SAFA total         | 8382      | 3924         | 3476   | 1129   | 0.55                  |

# Operators – Flight Deck items

| Description                         | Insp.(III) | findings (F) |        |        |       | ratio          |      |
|-------------------------------------|------------|--------------|--------|--------|-------|----------------|------|
|                                     |            | cat. 1       | cat. 2 | cat. 3 | total | F(cat.2+3)/III | rank |
| A03 Equipment                       | 290        | 17           | 56     | 13     | 86    | 0.238          | 1    |
| A04 Manuals                         | 255        | 7            | 10     |        | 17    | 0.039          | 24   |
| A05 Checklists                      | 266        | 17           | 18     |        | 35    | 0.068          | 14   |
| A06 Radio Navigation Charts         | 289        | 4            | 16     | 1      | 21    | 0.059          | 17   |
| A07 Minimum Equipment List          | 222        | 6            | 13     |        | 19    | 0.059          | 18   |
| A13 Flight preparation              | 248        | 9            | 13     | 7      | 29    | 0.081          | 11   |
| A14 Weight and balance sheet        | 238        | 9            | 17     | 6      | 32    | 0.097          | 9    |
| A15 Hand fire extinguishers         | 282        | 11           | 11     | 4      | 26    | 0.053          | 19   |
| A16 Life jackets / flotation device | 235        | 7            | 7      | 3      | 17    | 0.043          | 22   |
| A17 Harness                         | 285        | 16           | 40     | 16     | 72    | 0.196          | 2    |
| A18 Oxygen equipment                | 274        | 8            | 26     | 3      | 37    | 0.106          | 6    |
| A19 Flash Light                     | 264        | 24           | 21     | 6      | 51    | 0.102          | 8    |

# Operators – Cabin items

| Description                                       | Insp.<br>(III) | findings (F) |        |        |       | ratio          |      |
|---|----------------|--------------|--------|--------|-------|----------------|------|
|   |                | cat. 1       | cat. 2 | cat. 3 | total | F(cat.2+3)/III | rank |
| B01 General Internal Condition                    | 296            | 10           | 6      | 5      | 21    | 0.037          | 25   |
| B02 Cabin attendant's station and crew rest area  | 224            | 4            | 22     | 1      | 27    | 0.103          | 7    |
| B03 First Aid Kit/ Emergency medical kit          | 238            | 16           | 18     |        | 34    | 0.076          | 13   |
| B04 Hand fire extinguishers                       | 251            | 8            | 7      | 1      | 16    | 0.032          | 30   |
| B05 Life jackets / Flotation devices              | 214            | 6            | 10     | 4      | 20    | 0.065          | 16   |
| B07 Emergency exit, lighting and marking, torches | 220            | 15           | 22     | 6      | 43    | 0.127          | 5    |
| B09 Oxygen Supply (Cabin Crew and Passengers)     | 241            | 10           | 14     | 2      | 26    | 0.066          | 15   |
| B10 Safety Instructions                           | 210            | 10           | 17     | 1      | 28    | 0.086          | 10   |
| B12 Access to emergency exits                     | 253            | 7            | 35     | 5      | 47    | 0.158          | 3    |
| B13 Safety of passenger baggages                  | 175            | 3            | 5      | 4      | 12    | 0.051          | 20   |

# Operators – Aircraft & Cargo items

| Description                                | Insp.<br>(III) | findings (F) |        |        |       | ratio          |      |
|--|----------------|--------------|--------|--------|-------|----------------|------|
|  |                | cat. 1       | cat. 2 | cat. 3 | total | F(cat.2+3)/III | rank |
| C01 General external condition             | 374            | 22           | 15     |        | 37    | 0.040          | 23   |
| C02 Doors and hatches                      | 355            | 1            | 5      | 1      | 7     | 0.017          | 37   |
| C03 Flight controls                        | 343            | 5            | 3      | 3      | 11    | 0.017          | 36   |
| C04 Wheels, tyres and brakes               | 356            | 9            | 11     | 1      | 21    | 0.034          | 28   |
| C05 Undercarriage                          | 354            | 2            | 1      |        | 3     | 0.003          | 46   |
| C06 Wheel well                             | 342            | 6            | 1      |        | 7     | 0.003          | 45   |
| C07 Powerplant and pylon                   | 314            | 3            | 1      |        | 4     | 0.003          | 44   |
| C08 Fan blades                             | 240            |              |        |        | 0     | 0.000          | 53   |
| C09 Propellers                             | 66             | 2            |        |        | 2     | 0.000          | 54   |
| C10 Obvious repairs                        | 305            | 2            |        | 1      | 3     | 0.003          | 43   |
| C11 Obvious unrepaired damage              | 300            | 8            | 6      |        | 14    | 0.020          | 35   |
| C12 Leakage                                | 325            | 7            | 6      | 4      | 17    | 0.031          | 31   |
| D01 General condition of cargo compartment | 255            | 5            | 7      | 5      | 17    | 0.047          | 21   |
| D02 Dangerous Goods                        | 88             | 3            | 5      | 2      | 10    | 0.080          | 12   |
| D03 Safety of cargo on board               | 170            | 11           | 14     | 11     | 36    | 0.147          | 4    |

# Operators – finding highlights

- A14 weight and balance sheet
- A19 flash light
- B02 cabin attendant station
- B07 emergency exit, lighting and marking
- B10 safety instructions
- D03 safety of cargo onboard



*JAA*

**The end**