

SADIS COST RECOVERY & ADMINISTRATIVE GROUP (SCRAG)

SEVENTEENTH MEETING

(Toulouse, France, 10th November 2016)

Agenda Item 3: Review of actual SADIS costs and cost shares for the period 1 January to 31 December 2015

2015 ACTUAL SADIS COSTS

(Presented by the United Kingdom)

REFERENCES

SADIS Agreement

SCRAG Reports 1-16

METP WG-MOG/1 and 3 METP WG-MOG/1 Reports

1. INTRODUCTION

- 1.1 Article IX of the SADIS Agreement identifies that the United Kingdom shall furnish on or before 30 June of each year, a statement of the actual costs of the SADIS, expressed in pounds sterling, for the previous calendar year. These costs are identified in TABLE 1.
- 1.2 The format of the table is similar to that provided for previous years and is consistent with information provided in the SADIS Inventory.

2. DISCUSSION

2.1 Notes to the actual costs for 2015 and forecast costs for 2016

a. Communications between Whitehill and the Met Office

Terrestrial communications costs between Exeter and the SADIS Uplink site at Whitehill. For 2015 the Vodafone circuit continues to bill at £1569.75 per annum while the BT circuits are billing at £4246 per annum. *These costs will cease in August 2016 with the termination of the SADIS 2G service.*

b. NATS Links

Communications costs between the SADIS Gateway, operated by NATS, and the Met Office are provided here. NATS own the links and are billed for the circuits. NATS invoice the Met Office for the Met Office share of the costs. It is anticipated that these costs will continue as a requirement related to SADIS FTP.

c. Message Switch

In 2015, data feeds were provided to SADIS 2G, SADIS FTP and the MetSwitch SADIS 2G downlink monitoring systems. The SADIS 2G costs will not apply after 31 July 2016.

d. Internet Bandwidth

It was agreed by the third meeting of the Meteorological Operations Group of the Meteorological Panel (METP WG-MOG/1, 8-11 September 2015, Gatwick, UK) that the bandwidth should be increased from 16Mbit/sec bursting 24 Mbit/sec to 24Mbit/sec bursting 42Mbit/sec in October 2015. The increased bandwidth is charged at an annual rate of GBP10,250. This increase has been applied proportionally for 2015 resulting in a cost of £7,135.

e. Service Desk equipment and Serial Communications

These charges cover equipment costs for the service desk functions and support of serial communications equipment.

f. Satellite Segment

The SADIS 2G satellite bandwidth lease expired on 31 July 2016 with the cessation of the SADIS 2G service. The full annual charge is applied to 2015, with charges ceasing 31 July 2016 (Note, the 2016 costs were at a slightly reduced rate (pro rata) in comparison to 2015).

g. Annual Maintenance

Maintenance comprises:- (i) A Facilities Management charge with Vodafone for the SADIS 2G Equipment at Whitehill. SADIS is the sole user of the facility and the full cost of £6,300 per annum is charged to the SADIS programme, and will not be required after the cessation of SADIS 2G. (ii) A maintenance contract for SADIS 2G with Ultra - AEP Networks for 12 months to 31 Dec 2015 for £35,128; and for 7 months to 31 July 2016 for £23,622; (iii) IT Halls costs are charges made to the SADIS Programme based on floor usage of the IT Halls at Exeter for all SADIS equipment.

h. Ad-hoc maintenance

SCRAG/6 proposed that a charge of £5,000 be budgeted for ad-hoc maintenance activity in future years. There were no ad-hoc maintenance charges in 2015.

i. Help Desk and Other staff costs

The cost rates have been updated using the latest available figures. The percentage attribution rates can be found in the SADIS Inventory.

j. Additional support

Having been unchanged for several years and as notified in WP/10 of the SCRAG/15 meeting (2014), staff day-rates for 2015 were increased. As noted at the SCRAG/15 meeting reductions to the number of days assigned to some functions were applied to offset the increased charges as much as possible.

k. Resource costs

This line includes the costs for decommissioning the SADIS 2G service, and will apply only to 2016.

l. Travel Costs

Actual travel and subsistence costs for Met Office staff to attend appropriate Meteorological Panel Working Groups (particularly the Meteorological Operations Group, WG-MOG, in relation to SADIS) and SCRAG meetings are included here.

m. Cost of depreciated capital

In 2015 it became necessary to replace essential hardware at the SADIS 2G uplink facility at Whitehill. This was authorised through electronic correspondence with the SADISOPSG Secretary. The capital costs were £28,220, to be depreciated over 2 years - £21,165 in 2015 and £7,055 in 2016.

n. Cost of Capital

Cost of capital for 2015 has been calculated using the revised methodology applied in 2008 and described in SCRAG/10 WP/13.

o. Administrative costs (bank charges, couriered invoices etc)

Following SCRAG Conclusion 14/7, this item includes costs relating to the processing of invoices (usually when administration charges reduce the amount actually received by the SADIS Provider by a small amount), or the cost of couriered invoices where normal surface mail is unreliable.

2.2 Notes on SADIS Gateway Costs

p. Staff Costs – Systems Engineers

SADIS Gateway costs were detailed in SCRAG10 WP/14 and the revised basis of calculation was applied from January 1st 2009.

q. Systems Maintenance

These are reflected in Table 1

r. SADIS Gateway Upgrade

These are reflected in Table 1. A detailed description of the depreciation schedule is provided in Working Paper 10.

2.3 Notes on CAA and ICAO Administration Costs

s. CAA Administration Costs for 2015 comprise the following:

| | |
|------------------------------------|--------|
| Met Authority Regulatory oversight | £3,743 |
| Travel costs | £70 |
| Total | £3,813 |

t. ICAO Administration costs are detailed in WP/4.

3 ACTION

3.1 The SCRAG/17 is requested to note the cost information provided by the United Kingdom and approve for these costs to be recovered from States within the Cost Recovery Scheme.

TABLE 1: 2015 and 2016 SADIS Costs

| INVENTORY REF: | Note | DESCRIPTION | 2015 Actual (Jan-Dec) | 2015 FOO (SCRAG16) | 2015 Estimate (SCRAG15) | 2016 FOO (SCRAG17) | 2016 Estimate (SCRAG16) |
|---|------|---|-----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|
| UK MET OFFICE COSTS | | | | | | | |
| 1. Equipment | | | | | | | |
| Principally procured for SADIS | | | | | | | |
| | | comms between Whitehill & Met Office | 5,816 | 5,816 | 5,816 | 3,393 | 3,393 |
| | a | SADIS 2G | | | | | |
| | | comms link SADIS Gateway & Met Office | 3,340 | 3,340 | 3,340 | 3,340 | 3,340 |
| | b | SADIS 2G/SADIS FTP | | | | | |
| | | ISDN back-up link | 0 | 0 | 372 | 0 | 0 |
| | | ISDN Back-up | | | | | |
| Not procured principally for SADIS | | | | | | | |
| | | message switch (FTP) | 6,549 | 4,190 | 7,500 | 6,220 | 1,000 |
| | c | SADIS FTP | | | | | |
| | | message switch (2G) | 4,846 | 3,131 | 5,500 | 2,685 | 800 |
| | | SADIS 2G | | | | | |
| | | internet bandwidth (FTP) | 7,135 | 7,135 | 6,500 | 10,250 | 10,250 |
| | d | FTP | | | | | |
| | | FTP equipment running costs | 19,264 | 19,024 | 13,000 | 19,264 | 19,024 |
| | | Service Desk Equipment costs | 12,520 | 12,750 | 12,500 | 12,750 | 12,750 |
| | e | Service Desk eqpt | | | | | |
| | | Serial Comms Costs and maintenance | 10,614 | 11,000 | 11,000 | 10,601 | 11,000 |
| | | Serial Comms | | | | | |
| | | sub total | 70,084 | 66,386 | 65,528 | 68,503 | 61,557 |
| 2. Procured Services | | | | | | | |
| | | space segment annual lease | 56,570 | 54,660 | 54,660 | 27,981 | 25,295 |
| | f | Satellite Segment | | | | | |
| | | annual maintenance | 35,128 | 33,670 | 36,500 | 23,662 | 20,411 |
| | g | 2G Maintenance | | | | | |
| | | 2G Facilities Mgmt | 6,300 | 6,300 | 6,300 | 3,675 | 3,675 |
| | | IT Halls | 14,639 | 14,500 | 15,000 | 14,873 | 8,458 |
| | | ad hoc maintenance | 0 | 5,000 | 5,000 | 5,000 | 5,000 |
| | h | ad hoc maintenance | | | | | |
| | | sub total | 112,637 | 114,130 | 117,460 | 75,191 | 62,839 |
| 3. Annual Staff Requirements | | | | | | | |
| | | Help Desk | 5,916 | 6,000 | 6,000 | 6,000 | 6,000 |
| | i | Help Desk | | | | | |
| | | Technical Team Leader | 12,520 | 12,297 | 12,700 | 12,520 | 12,297 |
| | | Network Systems Supervisor | 25,040 | 24,593 | 25,300 | 25,040 | 24,593 |
| | | Additional Support | | | | | |
| | | Systems Integration Team | 5,292 | 5,292 | 5,292 | 5,292 | 5,292 |
| | j | Network Computer Engineer | | | | | |
| | | Message Switching | 5,670 | 5,670 | 5,670 | 5,670 | 5,670 |
| | | Message Switching Manager | | | | | |
| | | Administrator | 62,850 | 62,850 | 62,850 | 62,850 | 62,850 |
| | | Executive Officer | | | | | |
| | | International Aviation Management | 7,290 | 7,290 | 7,290 | 7,290 | 7,290 |
| | | Aviation Manager | | | | | |
| | | Data Traffic | 1,890 | 1,890 | 1,890 | 1,890 | 1,890 |
| | | Communications Engineer | | | | | |
| | | Contract Management | 1,512 | 1,512 | 1,512 | 1,512 | 1,512 |
| | | Senior Procurement Officer | | | | | |
| | | Message Switching Team | 5,670 | 5,670 | 5,670 | 5,670 | 5,670 |
| | | Technical Officer | | | | | |
| | | Invoice Administration | 14,850 | 14,850 | 14,850 | 14,850 | 14,850 |
| | | Invoice Officer & Business Acct | | | | | |
| | | CIDA | 0 | 0 | 0 | 0 | 0 |
| | | CIDA & Infrastructure Engineer | | | | | |
| | | SADIS 2G decommissioning | N/A | N/A | 10,000 | 2,000 | 2,000 |
| | k | Resource costs | | | | | |
| | | Travel Costs | | | | | |
| | | SADISOPSG & SCRAG | 1,479 | 1,000 | 3,000 | 1,000 | 1,000 |
| | l | SADISOPSG & SCRAG | | | | | |
| | | sub total | 149,979 | 148,914 | 162,024 | 151,584 | 150,914 |
| | | TOTAL | 332,700 | 329,430 | 345,012 | 295,278 | 275,310 |
| | | Cost of Depreciated Capital | | | | | |
| | | SADIS 2G | 0 | 0 | 0 | 0 | 0 |
| | | FTP enhancements | 0 | 0 | 0 | 0 | 0 |
| | m | SADIS 2G CP6000 replacement (with CP7C) | 21,165 | 21,165 | 12,000 | 7,055 | 7,055 |
| | | sub total | 353,865 | 350,595 | 357,012 | 302,333 | 282,365 |
| | | Administrative costs | | | | | |
| | n | Cost of Capital | 17,960 | 13,630 | 20,000 | 17,960 | 13,630 |
| | o | Admin charges | 375 | 200 | 100 | 300 | 200 |
| | | Total UKMO Costs | 372,200 | 364,425 | 377,112 | 320,593 | 296,195 |

TABLE 1: 2015 and 2016 SADIS Costs

| INVENTORY REF: | Note | DESCRIPTION | 2015 | 2015 | 2015 | 2016 | 2016 |
|---|------|----------------------------|---------------------|------------------|-----------------------|------------------|-----------------------|
| | | | Actual (Jan-Dec) | FOO (SCRAG16) | Estimate (SCRAG15) | FOO (SCRAG17) | Estimate (SCRAG16) |
| NATS Gateway Costs | | | | | | | |
| Staff Costs | | | | | | | |
| | p | | | | | | |
| Operational Staff | | Air Traffic Services Asst. | 250,860 | 258,907 | 276,968 | 266,738 | 266,738 |
| Engineering Staff | | Maintenance Engineer | 4,048 | 2,349 | 9,430 | 9,660 | 9,660 |
| Administration Staff | | Administration Officer | 93 | 274 | 1,099 | 1,122 | 1,122 |
| Engineering Staff | | Asset Management | N/A | N/A | N/A | N/A | N/A |
| | | sub total | 255,001 | 261,530 | 287,497 | 277,520 | 277,520 |
| Systems Maintenance | q | IP Comms link to UKMO | 0 | N/A | N/A | N/A | N/A |
| | | X25 Comms link to UKMO | 0 | N/A | N/A | N/A | N/A |
| | | Systems Maintenance | 0 | N/A | N/A | N/A | N/A |
| | | Communications | 1,720 | 822 | 7,500 | 1,567 | 1,567 |
| | | Maintenance | 9,599 | 8,987 | 6,500 | 9,169 | 9,169 |
| | | T&RE | 721 | 2,815 | 4,750 | 3,200 | 3,200 |
| Sadis Gateway Upgrade (Capital Project) | r | Capitalised Staff Costs | N/A | 0 | 20,301 | N/A | N/A |
| Cost of Depreciated Capital | | Capital Investments | 37,466 | 37,466 | 20,443 | 37,466 | 37,466 |
| | | Interest @ 5.88% | 10,983 | 10,983 | 10,983 | 8,786 | 8,786 |
| SADIS Backup Enhancement | | Procurement & Installation | 0 | 0 | 0 | 0 | 0 |
| | | Annual support costs | 0 | 0 | 0 | 0 | 0 |
| Total NATS Gateway Costs | | | 315,490 | 322,603 | 357,974 | 337,708 | 337,708 |
| CAA Administration Costs | s | | 3,813 | 4,000 | 5,000 | 4,000 | 4,000 |
| ICAO Administration Costs | t | | 36,711 | 40,338 | 50,229 | 36,711 | 39,892 |
| TOTAL SADIS COSTS | | | 728,214 | 731,366 | 790,315 | 699,012 | 677,795 |

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