

# AUSTRALIAN NUCLEAR SCIENCE AND TECHNOLOGY ORGANISATION

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# AUSTRALIAN NUCLEAR SCIENCE AND TECHNOLOGY ORGANISATION

## Section 1: Agency overview and resources

### 1.1 STRATEGIC DIRECTION

The Australian Nuclear Science and Technology Organisation (ANSTO) is Australia's national nuclear organisation and the centre of Australian nuclear expertise. The role of ANSTO is defined under the *Australian Nuclear Science and Technology Organisation Act 1987*.

ANSTO will continue its primary functions of: providing government with expert scientific and technical advice across the nuclear fuel cycle; supporting Australia's national strategic and nuclear policy objectives; manufacturing and supplying radiopharmaceuticals for Australians; operating nuclear science and technology based facilities; undertaking research on nuclear science and other specific topics; and using ANSTO's unique capabilities to address community and industry needs.

ANSTO's strategic directions 2005-2010 document sets out the basis for ANSTO's future planning and priorities. ANSTO's four key strategic directions for this period are:

- Deliver excellence in nuclear science and technology;
- Focus our capabilities to support issues of national importance;
- Maximise return on investment in expertise and specialised facilities; and
- Promote understanding of the benefits of nuclear science and technology.

These strategic directions are reviewed regularly and in the current economic climate, and with reductions in government appropriation, all projects and functions ANSTO undertakes are the subject of review and prioritisation.

ANSTO's key initiatives and challenges for the 2008-09 financial year are:

- To complete the commissioning of the OPAL reactor, together with its associated neutron research equipment and radioisotope production facilities for molybdenum 99. This will enable ANSTO to achieve its strategic objective to realise the full potential of OPAL by making use of all reactor-based capabilities in irradiation services and research activities.

*ANSTO Budget Statements*

- To plan and complete the next shipment of spent fuel from the shutdown HIFAR research reactor. The shipment to the United States is scheduled to take place during the 2008-09 financial year. This will be the final of nine shipments of HIFAR spent fuel, marking a significant milestone for ANSTO.
- To promote and develop full utilisation of ANSTO's new neutron scattering equipment and attract international researchers to establish ANSTO's capability in this area. More investment will be required in instrument scientists in future years to meet anticipated demand for neutron scattering experiments.
- To fulfil ANSTO's core role as a community service of providing nuclear medicines domestically for diagnosis and treatment of a wide range of diseases in a reliable manner. The extended shutdown of the OPAL research reactor in 2007-08 demonstrated the importance of a reliable local supply of reactor-produced radiopharmaceuticals so as to avoid the high cost and supply variability which occurs with importation.
- Commissioning a plant for the commercial production of molybdenum-99 and other radiopharmaceuticals for use by Australians in the diagnosis and treatment of health issues by the middle of this financial year. This process is subject to appropriate licensing approvals from the safety regulator, the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) and Therapeutic Goods Administration (TGA).
- Commencing the de-commissioning of the Moata research reactor which was shut down in 1995. This de-commissioning work will continue into the following financial year period.
- Expanding ANSTO's unique expertise in researching and understanding climate change and water management.
- Constructing and operating, through PETNET Australia Pty Limited, a subsidiary entity of ANSTO, a production plant for fluoro-deoxy-glucose (FDG). FDG is a radioisotope which is increasingly being used in diagnostic imaging for the benefit of Australians.
- Completing the automation of ANSTO's radiopharmaceutical manufacturing processes for technetium generator assembly, and thallium and gallium dispensing, as part of ANSTO's long-term infrastructure plan.

## 1.2 AGENCY RESOURCE STATEMENT

Table 1.1 shows the total resources from all origins. The table summarises how resources will be applied by outcome and by administered and departmental classification.

**Table 1.1: CAC Act Body ANSTO resource statement — Budget estimates for 2008-09 as at Budget May 2008**

Source	Estimate of prior + year amounts available in 2008-09 \$'000	Proposed at Budget = 2008-09 \$'000	Total Estimate 2008-09 \$'000	Estimated Available Appropriation 2007-08 \$'000
<b>Opening Balance/Reserves at Bank<sup>3</sup></b>	<b>115,000</b>	-	<b>115,000</b>	-
<b>REVENUE FROM GOVERNMENT</b>				
<b>Ordinary Annual Services<sup>1</sup></b>				
Outcome 1: Nuclear-based Infrastructure	-	-	-	-
Outcome 2: Disposition of Spent Fuel	-	10,079	10,079	798
Outcome 3 <sup>4</sup> : Science and Technology Solutions	-	163,036	163,036	152,516
<b>Total ordinary annual services</b>	<b>-</b>	<b>173,115</b>	<b>173,115</b>	<b>153,314</b>
<b>Other services<sup>2</sup></b>				
<i>Non-Operating</i>	-	1,600	1,600	32,400
<b>Total other services</b>	<b>-</b>	<b>1,600</b>	<b>1,600</b>	<b>32,400</b>
<b>Total Annual Appropriations</b>	<b>-</b>	<b>174,715</b>	<b>174,715</b>	<b>185,714</b>
<b>Total Funds from Government</b>	<b>115,000</b>	<b>174,715</b>	<b>289,715</b>	<b>185,714</b>
<b>FUNDS FROM OTHER SOURCES</b>				
<i>Interest</i>	-	10,000	10,000	7,400
<i>Sale of goods and services</i>	-	36,106	36,106	36,639
<i>Other</i>	-	717	717	717
<b>Total</b>	<b>-</b>	<b>46,823</b>	<b>46,823</b>	<b>44,756</b>
<b>Total net resourcing for ANSTO</b>	<b>115,000</b>	<b>221,538</b>	<b>336,538</b>	<b>230,470</b>

All figures are GST exclusive.

ANSTO is not directly appropriated as it is a CAC Act body. Appropriations are made to the Department of Innovation, Industry, Science and Research which are then paid to ANSTO and are considered 'departmental' for all purposes.

<sup>1</sup> Appropriation Bill (No.1) 2008-09.

<sup>2</sup> Appropriation Bill (No.2) 2008-09.

<sup>3</sup> The prior year amount of \$115 million is related to meeting future capital obligations to maintain the agency's asset base; automation of radiopharmaceuticals production and to meet employee entitlement liabilities. This is further explained in section 3.1.

<sup>4</sup> Includes \$12.1 million which is appropriation for specified de-commissioning activities.

### Third Party Drawdowns from and on behalf of other agencies

ANSTO has no Third Party Drawdowns.

### 1.3 BUDGET MEASURES

Budget measures relating to ANSTO are detailed in Budget Paper No.2. Table 1.2 provides a summary of government measures and identifies the relevant output group associated with each measure.

**Table 1.2: Agency 2008-09 Budget measures**

	Output Group	2008-09 \$'000	2009-10 \$'000	2010-11 \$'000	2011-12 \$'000
<b>Expense measures</b>					
Responsible Economic Management					
Departmental outputs	3.1	(1.222)	(1.028)	(1.033)	(1.032)
	3.2	(0.300)	(0.200)	(0.200)	(0.200)
	3.3	(0.600)	(0.500)	(0.500)	(0.500)
<b>Total expense measures</b>		<b>(2.122)</b>	<b>(1.728)</b>	<b>(1.733)</b>	<b>(1.732)</b>
Nuclear Collaboration Research Program <sup>1</sup>					
Departmental outputs	3.4	(1.600)	(1.800)	(1.500)	-
<b>Total expense measures</b>		<b>(1.600)</b>	<b>(1.800)</b>	<b>(1.500)</b>	<b>-</b>

Prepared on a Government Financial Statistics (fiscal) basis

1. This measure has an impact of -\$1.4m in expense and -\$5.0m in capital in 2007-08.

The full description and package details for ANSTO measures appear in Budget Paper 2 under the Innovation, Industry, Science and Research portfolio.

## Section 2: Outcomes and planned performance

### 2.1 OUTCOMES AND PERFORMANCE INFORMATION

The Australian Government requires agencies to measure their intended and actual performance in terms of outcomes. Government outcomes are the results, impacts or consequences of actions by the Government on the Australian community. Agencies are required to identify the output groups which demonstrate their contribution to Government outcomes over the coming year.

Each outcome is described below by output groups, specifying the performance indicators and targets used to assess and monitor the performance of ANSTO in achieving Government outcomes.

#### 2.1.1 Outcome 1: Nuclear-based Infrastructure.

##### Outcome 1 Strategy

Subject to regulatory approvals, ANSTO expects to complete commissioning of the OPAL research reactor during the 2008-09 financial year.

##### Outcome 1 Resource statement

Any costs associated with the completion of commissioning the OPAL reactor and associated instruments will be borne out of outcome 3. Although these costs are not able to be determined at this stage, it is anticipated that sufficient outcome 3 funding will be available.

Since all funding will be from Outcome 3 resourcing, Table 2.1.1 is not presented.

#### Contributions to Outcome 1

##### Output Group 1.1: Commissioning of the OPAL reactor

<b>Output Group 1.1: Commissioning of the OPAL reactor</b>	
Effective management of the commissioning of the OPAL reactor.	
Key Performance Indicators	2008-09 Target
Completion of commissioning tests.	end 2008
Completion of performance demonstration tests.	first quarter 2009
All neutron beam instruments with operating licences.	end 2008

## 2.1.2 Outcome 2: Disposition of Spent Fuel.

### Outcome 2 Strategy

ANSTO is planning for removal and transportation overseas of the balance of spent fuel from the former HIFAR nuclear research reactor which discontinued operation in January 2007. The shipment will occur in line with stringent safety arrangements and community expectations. All relevant approvals from Australian authorities and international bodies will be obtained. An experienced service provider will be engaged to undertake the shipment.

The disposition of this spent fuel will be the last of nine shipments and will complete this project. In the longer term, some reprocessed waste from previous spent fuel shipments to the United Kingdom and France will be returned to Australia for long-term storage. No funding has been appropriated for this purpose.

### Outcome 2 Resource statement

Table 2.1. provides additional detail of Budget appropriations and the total resourcing for outcome 2.

**Table 2.1: Total resources for Outcome 2**

Outcome 2: Disposition of Spent Fuel	2008-09 Total estimate of available resources \$'000	2007-08 Estimated actual \$'000
<b>Output Group 2.1: Program for shipments of all spent fuel</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	10,079	798
Revenues from other sources (s.31)	-	-
<b>Subtotal for Output Group 2.1</b>	<b>10,079</b>	<b>798</b>
<b>Total resources for Outcome 2</b>	<b>10,079</b>	<b>798</b>
<hr/>		
<b>Average staffing level (number)</b>	2008-09	2007-08
	5	1

<sup>1</sup> Appropriation Bill (No.1) 2008-09.

### Contributions to Outcome 2

#### Output Group 2.1: Shipment program

Output Group 2.1: Shipment program	
<ul style="list-style-type: none"> <li>A program of shipments for reprocessing of all HIFAR spent fuel in place.</li> </ul>	
Key Performance Indicators	2008-09 Target
Safety procedures adhered to fully, and shipments on time and within budget.	Ninth and final shipment to take place in 2008-09.

### **Outcome 3: Science and Technology Solutions.**

#### **Outcome 3 Strategy**

ANSTO develops and provides nuclear science and technology solutions that: encourage innovation in Australia; support national interests; assist in understanding climatic and environmental challenges; and meet community needs for medical radioisotopes.

#### **Management of core nuclear facilities**

ANSTO expects to complete commissioning of the OPAL reactor and associated neutron-scattering instruments. These instruments are contained within the Neutron Guide Hall building, which is part of the OPAL reactor complex opened in April 2007, and are expected to become a focus for international researchers looking to conduct experiments in a range of areas, including food science, structural integrity and molecular structures.

The facilities will be made available for research on a peer review basis and also for industry on a user-pays basis.

There are other facilities at the Lucas Heights centre with wide applications in the environmental, materials and structural fields that are available for use by researchers or industry.

#### **Scientific and technical services for Government**

ANSTO provides expert nuclear advice to government and general information to the wider community as part of its functions. Technical services are also available including radiation monitoring and mining expertise, with an emphasis on uranium and naturally occurring radioactive materials.

#### **Knowledge acquisition and utilisation**

The budget for 2008-09 will be used to increase priority research in areas of applications of neutron scattering and radiopharmaceuticals. Investments will also be sustained in increasing the take-up of ANSTO's innovations, especially in materials engineering and environmental science.

The current worldwide growth in demand for nuclear skills will continue to place pressure on ANSTO to retain qualified staff and to replace them when vacancies arise. Nuclear knowledge management is a major challenge for ANSTO in coming years.

### **Provision of education and training**

ANSTO is reviewing its graduate program in light of tighter budget circumstances after having taken on new graduates at the commencement of 2008. Reductions to ANSTO's future appropriations for this program, made as part of a government election commitment, have resulted in ANSTO placing a temporary hold on graduate intakes.

Arrangements have changed with the Australian Institute for Nuclear Science and Engineering (AINSE), a joint venture of ANSTO and almost all Australian universities that provides access for academic staff and students to ANSTO facilities. Facility charges have been replaced with merit-reviewed access to ANSTO's new OPAL instruments. Consequently less of AINSE's budget is spent at ANSTO, with a committed increase in expenditure at universities through support of research fellows and postgraduate students.

As part of ANSTO's objective of increasing community understanding of nuclear science and its applications, education programs for schools will continue to grow at Lucas Heights, with materials and free tours. There was a 70 per cent increase on the previous year in the number of students who visited ANSTO in 2007, with almost 3500 students participating amongst over 9000 visitors during the year.

ANSTO is aiming to increase its role throughout the Asia-Pacific region in providing training support in the area of control and storage of radioactive sources and materials. With strong growth in nuclear power development amongst many countries to Australia's north, the demand for support and training services is likely to experience strong growth.

### **Radiopharmaceuticals**

ANSTO envisages more reliable and more cost-effective supply of radiopharmaceuticals with the completion of commissioning of OPAL and the associated molybdenum-99 processing facilities.

Automation of some of the more labour intensive radiopharmaceutical production processes will provide increased efficiency, but importantly it will reduce risks to workers with incidental contacts and low level exposures.

**Exploitation of assets**

ANSTO will be moving new products and services through to commercialisation, with the intention of deriving a financial return on them and seeing them taken up in Australian industry and the public sector.

In the medium to long term ANSTO will continue to develop the full utilisation of OPAL, rebalance its research portfolio to ensure consistency with Government policy, make provision for increased numbers of researchers to use the instruments at OPAL, and continue the processes to become a reliable and cost effective supplier of radiopharmaceuticals.

**Outcome 3 Resource statement**

Table 2.1 provides additional detail of Budget appropriations and the total resourcing for outcome 3.

**Table 2.1: Total resources for Outcome 3**

<b>Outcome 3: Science and Technology Solutions</b>	2008-09 Total estimate of available resources \$'000	2007-08 Estimated actual \$'000
<b>Output Group 3.1 Management of core nuclear facilities</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	90,640	84,791
Revenues from other sources (s.31)	7,043	6,733
<b>Subtotal for Output Group 1.1</b>	<b>97,683</b>	<b>91,524</b>
<b>Output Group 3.2 Scientific and technical services for Government</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	20,391	19,076
Revenues from other sources (s.31)	1,634	1,562
<b>Subtotal for Output Group 3.2</b>	<b>22,025</b>	<b>20,638</b>
<b>Output Group 3.3 Knowledge acquisition and utilisation</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	42,603	39,854
Revenues from other sources (s.31)	4,500	4,301
<b>Subtotal for Output Group 3.3</b>	<b>47,103</b>	<b>44,155</b>
<b>Output Group 3.4 Provision of education and training</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	4,287	4,010
Revenues from other sources (s.31)	235	224
<b>Subtotal for Output Group 3.4</b>	<b>4,522</b>	<b>4,234</b>
<b>Output Group 3.5 Radiopharmaceutical sales</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	3,148	2,945
Revenues from other sources (s.31)	22,885	21,875
<b>Subtotal for Output Group 3.5</b>	<b>26,033</b>	<b>24,820</b>
<b>Output Group 3.6 Exploitation of assets</b>		
Departmental Outputs		
Departmental Outputs <sup>1</sup>	1,967	1,840
Revenues from other sources (s.31)	10,526	10,061
<b>Subtotal for Output Group 3.6</b>	<b>12,493</b>	<b>11,901</b>
<b>Total resources for Outcome 3</b>	<b>209,859</b>	<b>197,272</b>

	2008-09	2007-08
<b>Average staffing level (number)</b>	1,007	987

<sup>1</sup> Appropriation Bill (No.1) 2008-09. This includes \$12.1 million which is appropriation for specified de-commissioning activities.

Note: Departmental Appropriation splits and totals, by outcome and output, are indicative estimates and may change in the course of the budget year as government priorities change.

### Contributions to Outcome 3

#### Output Group 3.1: Management of core nuclear facilities

<b>Output Group 3.1: Management of core nuclear facilities</b>	
Management of core nuclear facilities, providing Australia with nuclear capability and credibility from which socio-economic benefits flow to Australia, the research and development community and industry.	
Key Performance Indicators	2008-09 Target
Research reactor availability – percentage of actual hours at power as a proportion of total hours planned to be at power.	97.8 per cent.
Reactor beamline usage – percentage of all available days across all instruments.	66 per cent.
Accelerator usage – percentage of all available days, excluding maintenance, for tandem accelerators.	77 per cent.

#### Output Group 3.2: Scientific and technical services for Government

<b>Output Group 3.2: Scientific and technical services for Government.</b>	
Expert scientific and technical services for, and on behalf of, Government in support of Australia's national and international strategic and nuclear policy objectives.	
Key Performance Indicators	2008-09 Target
Leadership role in national and international forums and networked organisations – number of such roles.	37
Person-years by staff on projects that have as a primary objective providing advice to government.	13.5

#### Output Group 3.3: Knowledge acquisition and utilisation

<b>Output Group 3.3: Knowledge acquisition and utilisation</b>	
The acquisition of knowledge through research, and its utilisation through innovation, to advance the beneficial applications of nuclear science and technology to problems of environmental, medical, social and industrial importance.	
Key Performance Indicators	2008-09 Target
Publications (books, chapters, monographs, journal articles, conference papers/abstracts) – quantity.	645
Number of collaborations in research projects.	153
New inventions per year:	
• invention disclosures; and	10
• provisional Patent Filing.	2

**Contributions to Outcome 3 (cont)**

**Output Group 3.4: : Provision of education and training**

<b>Output Group 3.4: Provision of education and training</b>	
Education and training provided to industry, universities and schools, including students undertaking studies related to nuclear science and technology and its applications.	
Key Performance Indicators	2008-09 Target
Number of postgraduates and undergraduates supervised.	143
External earnings from training courses.	\$201,000

**Output Group 3.5: Radiopharmaceutical sales**

<b>Output Group 3.5: Radiopharmaceutical sales</b>	
Regular production and sale of radiopharmaceuticals for medical and other services, through designated business units.	
Key Performance Indicators	2008-09 Target
Radiopharmaceutical sales - Total.	\$19.795 million
Radiopharmaceutical doses - (Potential Doses).	1,975,077
Export sales.	\$4.789 million

**Output Group 3.6: Exploitation of assets**

<b>Output Group 3.6: Exploitation of assets</b>	
The exploitation of ANSTO's expertise, intellectual property and physical assets.	
Key Performance Indicators	2008-09 Target
Number of inventions and designs with active commercialisation plans.	18
External earnings from land management and CSIRO site support.	\$3.737 million
External earnings from services and contract research.	\$11.545 million

## Section 3: Explanatory tables and budgeted financial statements

Section 3 presents budgeted financial statements which provide a comprehensive snapshot of agency finances for the budget year 2008-09. It explains how budget plans are incorporated into the financial statements and provides further details of movements in administered funds, special accounts and government Indigenous expenditure.

### **3.1 EXPLANATORY TABLES**

#### **3.1.1 Reconciliation of total available appropriation and outcomes**

ANSTO is a CAC Act Body and not required to include Table 3.1.1.

#### **3.1.2 Movement of administered funds between years**

ANSTO has no administered funds therefore table 3.1.2 is not presented.

#### **3.1.3 Special Accounts**

ANSTO has no Special Accounts therefore Table 3.1.3 is not presented.

#### **3.1.4 Australian Government Indigenous Expenditure**

ANSTO has no Indigenous expenditure therefore Table 3.1.4 is not presented.

## **3.2 BUDGETED FINANCIAL STATEMENTS**

### **3.2.1 Differences in agency resourcing and financial statements**

ANSTO has no significant differences as a result of differences between Australian Accounting Standards (AAS) and Government Finance Statistics (GFS).

### **3.2.2 Analysis of budgeted financial statements**

#### **Budgeted Departmental Income Statement**

This statement provides a picture of the expected financial results for ANSTO by identifying full accrual expenses and revenues which highlight whether the Agency is operating at a sustainable level.

Total revenue in 2008-09 is estimated to be \$173.1 million, an increase of \$19.8 million from 2007-08. This increase is due to the receipt of \$12.1 million to cover the cash cost of de-commissioning activities and \$10.1 million of outcome 2 funding associated with the disposition of spent fuel.

ANSTO has projected an operating loss of \$17.4 million for the 2007-08 year and \$5.3 million for the 2008-09 year which is mainly due to recognition of future de-commissioning costs, required under the new Australian Equivalents to International Financial Reporting Standards (AEIFRS). As the shortfall on de-commissioning funding continues, ANSTO will continue to report losses in forward years until a decision to fully fund AEIFRS requirements is resolved.

ANSTO received approval to run an operating loss over five years beginning 2006-07 totalling \$76 million (net of cash funding of \$1.1 million and \$12.1 million for 2007-08 and 2008-09 respectively).

Total expenses in 2008-09 are estimated to increase by \$9.7 million to \$225.2 million (2007-08 \$215.5 million). The increase is due to \$10.1 million for disposition of spent fuel, scheduled for 2008-09.

ANSTO funding has been reduced as the result of two government savings initiatives. The ANSTO Graduate Recruitment Program funding has been reduced by \$6.0 million over three years starting in 2008-09. Also, a one off savings dividend reduced funding by a further \$7.3 million over four years commencing in 2008-09.

Minor adjustments have been made to the budgeted financial statements with respect to Receipts from Sale of Goods and Services and Suppliers Expenses. This is due to the revision of estimates based on actual results to date, and parameter adjustments.

**Budgeted Departmental Balance Sheet**

This statement shows the financial position of ANSTO. It helps decision-makers track the management of the Agency's assets and liabilities.

In relation to the primary assets for 2008-09, total financial assets are projected to increase by \$19.1 million to \$141.4 million, due primarily to equity injections, the investment of funds received for depreciation, and the maturity of other investments.

**Budgeted Departmental Statement of Cash flows**

Budgeted cash flows, as reflected in the statement of cash flows, provides information on the extent and nature of cash flows by categorising them into expected cash flows from operating activities, investing activities and financing activities.

**Departmental statement of changes in equity – summary of movement (Budget year 2008-09)**

This statement summarises expected changes in equity arising from gains/losses, revaluations and transactions with owners during the budget year.

### 3.2.3 Budgeted financial statements tables

**Table 3.2.1: Budgeted departmental income statement  
(for the period ended 30 June)**

	Estimated actual 2007-08 \$'000	Budget estimate 2008-09 \$'000	Forward estimate 2009-10 \$'000	Forward estimate 2010-11 \$'000	Forward estimate 2011-12 \$'000
<b>INCOME</b>					
<b>Revenue</b>					
Revenues from Government	153,314	173,115	152,689	152,585	152,138
Goods and services	36,639	36,106	38,184	40,384	50,351
Interest	7,400	10,000	9,000	8,000	8,000
<b>Total revenue</b>	<b>197,353</b>	<b>219,221</b>	<b>199,873</b>	<b>200,969</b>	<b>210,489</b>
<b>Gains</b>					
Foreign exchange gains	30	30	30	30	30
Sale of assets	687	687	687	687	687
<b>Total gains</b>	<b>717</b>	<b>717</b>	<b>717</b>	<b>717</b>	<b>717</b>
<b>Total income</b>	<b>198,070</b>	<b>219,938</b>	<b>200,590</b>	<b>201,686</b>	<b>211,206</b>
<b>EXPENSE</b>					
Employees	74,317	77,483	77,230	78,110	82,253
Suppliers	62,544	70,234	63,227	63,433	52,354
Grants	1,000	1,000	1,000	1,000	1,000
Depreciation and amortisation	69,233	68,030	67,739	67,522	66,505
Finance costs	8,237	8,359	8,687	9,034	8,974
Losses from sale of assets	120	120	120	120	120
<b>Total expenses</b>	<b>215,451</b>	<b>225,226</b>	<b>218,003</b>	<b>219,219</b>	<b>211,206</b>
<b>Surplus (deficit) attributable to the Australian Government</b>	<b>(17,381)</b>	<b>(5,288)</b>	<b>(17,413)</b>	<b>(17,533)</b>	<b>-</b>

Prepared on Australian Accounting Standards basis

**Table 3.2.2: Budgeted departmental balance sheet  
(as at 30 June)**

	Estimated actual 2007-08 \$'000	Budget estimate 2008-09 \$'000	Forward estimate 2009-10 \$'000	Forward estimate 2010-11 \$'000	Forward estimate 2011-12 \$'000
<b>ASSETS</b>					
<b>Financial assets</b>					
Cash and equivalents	5,531	2,471	2,818	2,870	20,666
Trade and other Receivables	11,750	11,730	12,730	12,730	12,730
Investments (s.39 FMA Act; s.18 CAC Act; s.19 CAC Act)	102,123	123,524	142,129	165,088	190,007
<b>Total financial assets</b>	<b>119,404</b>	<b>137,725</b>	<b>157,677</b>	<b>180,688</b>	<b>223,403</b>
<b>Non-financial assets</b>					
Land and buildings	176,912	174,412	172,412	170,412	168,412
Infrastructure, plant and equipment	714,000	691,844	662,869	634,111	603,370
Inventories	4,208	5,308	9,208	9,208	9,208
Intangibles	776	776	776	776	776
Other	2,025	2,025	2,025	2,025	2,025
<b>Total non-financial assets</b>	<b>897,921</b>	<b>874,365</b>	<b>847,290</b>	<b>816,532</b>	<b>783,791</b>
<b>Total assets</b>	<b>1,017,325</b>	<b>1,012,090</b>	<b>1,004,967</b>	<b>997,220</b>	<b>1,007,194</b>
<b>LIABILITIES</b>					
<b>Interest bearing liabilities</b>					
Leases	3,114	3,302	3,502	3,712	3,922
<b>Total interest bearing liabilities</b>	<b>3,114</b>	<b>3,302</b>	<b>3,502</b>	<b>3,712</b>	<b>3,922</b>
<b>Provisions</b>					
Employees	25,736	26,824	27,174	28,174	29,174
Decommissioning costs	230,924	226,995	235,482	244,306	253,070
Other	2,503	2,503	2,503	2,503	2,503
<b>Total provisions</b>	<b>259,163</b>	<b>256,322</b>	<b>265,159</b>	<b>274,983</b>	<b>284,747</b>
<b>Payables</b>					
Suppliers	6,464	7,770	9,023	8,775	8,775
Other	7,217	7,017	7,017	7,017	7,017
<b>Total payables</b>	<b>13,681</b>	<b>14,787</b>	<b>16,040</b>	<b>15,792</b>	<b>15,792</b>
<b>Total liabilities</b>	<b>275,958</b>	<b>274,411</b>	<b>284,701</b>	<b>294,487</b>	<b>304,461</b>
<b>Net assets</b>	<b>741,367</b>	<b>737,679</b>	<b>720,266</b>	<b>702,733</b>	<b>702,733</b>
<b>EQUITY*</b>					
<b>Parent entity interest</b>					
Contributed equity	446,256	447,856	447,856	447,856	447,856
Reserves	255,025	255,025	255,025	255,025	255,025
Retained surpluses	40,086	34,798	17,385	(148)	(148)
<b>Total parent entity interest</b>	<b>741,367</b>	<b>737,679</b>	<b>720,266</b>	<b>702,733</b>	<b>702,733</b>
<b>Total equity</b>	<b>741,367</b>	<b>737,679</b>	<b>720,266</b>	<b>702,733</b>	<b>702,733</b>
<b>Current assets</b>	<b>122,350</b>	<b>141,441</b>	<b>164,123</b>	<b>187,134</b>	<b>229,849</b>
<b>Non-current assets</b>	<b>894,975</b>	<b>870,649</b>	<b>840,844</b>	<b>810,086</b>	<b>777,345</b>
<b>Current liabilities</b>	<b>40,916</b>	<b>43,124</b>	<b>44,871</b>	<b>45,673</b>	<b>46,723</b>
<b>Non-current liabilities</b>	<b>235,042</b>	<b>231,287</b>	<b>239,830</b>	<b>248,814</b>	<b>257,738</b>

\*'Equity' is the residual interest in assets after deduction of liabilities.  
Prepared on Australian Accounting Standards basis.

**Table 3.2.3: Budgeted departmental statement of cash flows  
(for the period ended 30 June)**

	Estimated actual 2007-08 \$'000	Budget estimate 2008-09 \$'000	Forward estimate 2009-10 \$'000	Forward estimate 2010-11 \$'000	Forward estimate 2011-12 \$'000
<b>OPERATING ACTIVITIES</b>					
<b>Cash received</b>					
Goods and services	36,169	36,136	37,214	40,414	50,381
Appropriations	153,314	173,115	152,689	152,585	152,138
Interest	7,400	10,000	9,000	8,000	8,000
Other	13,597	11,074	9,690	10,003	9,170
<b>Total cash received</b>	<b>210,480</b>	<b>230,325</b>	<b>208,593</b>	<b>211,002</b>	<b>219,689</b>
<b>Cash used</b>					
Employees	73,234	76,395	76,880	77,110	81,253
Suppliers	57,488	82,120	65,674	63,471	52,144
Grants	1,000	1,000	1,000	1,000	1,000
Borrowing costs	176	188	200	210	210
Other	13,597	11,074	9,690	10,003	9,170
<b>Total cash used</b>	<b>145,495</b>	<b>170,777</b>	<b>153,444</b>	<b>151,794</b>	<b>143,777</b>
<b>Net cash from operating activities</b>	<b>64,985</b>	<b>59,548</b>	<b>55,149</b>	<b>59,208</b>	<b>75,912</b>
<b>INVESTING ACTIVITIES</b>					
<b>Cash received</b>					
Proceeds from sales of property, plant and equipment	687	687	687	687	687
<b>Total cash received</b>	<b>687</b>	<b>687</b>	<b>687</b>	<b>687</b>	<b>687</b>
<b>Cash used</b>					
Purchase of property, plant and equipment	77,998	43,494	36,884	36,884	33,884
Investments (s.39 FMA Act; s.18 CAC Act; s.19 CAC Act)	18,020	21,401	18,605	22,959	24,919
<b>Total cash used</b>	<b>96,018</b>	<b>64,895</b>	<b>55,489</b>	<b>59,843</b>	<b>58,803</b>
<b>Net cash from or (used by) investing activities</b>	<b>(95,331)</b>	<b>(64,208)</b>	<b>(54,802)</b>	<b>(59,156)</b>	<b>(58,116)</b>
<b>FINANCING ACTIVITIES</b>					
<b>Cash received</b>					
Appropriations - contributed equity	32,400	1,600	-	-	-
<b>Total cash received</b>	<b>32,400</b>	<b>1,600</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Net cash from or (used by) financing activities</b>	<b>32,400</b>	<b>1,600</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Net increase or (decrease) in cash held</b>	<b>2,054</b>	<b>(3,060)</b>	<b>347</b>	<b>52</b>	<b>17,796</b>
Cash at the beginning of the reporting period	3,477	5,531	2,471	2,818	2,870
<b>Cash at the end of the reporting period</b>	<b>5,531</b>	<b>2,471</b>	<b>2,818</b>	<b>2,870</b>	<b>20,666</b>

Prepared on Australian Accounting Standards basis.

**Table 3.2.4: Departmental statement of changes in equity — summary of movement (Budget year 2008-09)**

	Retained earnings	Asset revaluation reserve	Other reserves	Contributed equity/capital	Total equity
	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Opening balance as at 1 July 2008</b>					
Balance carried forward from previous period	40,086	229,765	25,260	446,256	741,367
<b>Adjusted opening balance</b>	<b>40,086</b>	<b>229,765</b>	<b>25,260</b>	<b>446,256</b>	<b>741,367</b>
<b>Income and expense</b>					
<b>Sub-total income and expense</b>					
Net operating result	(5,288)	-	-	-	(5,288)
<b>Total income and expenses recognised directly in equity</b>	<b>34,798</b>	<b>229,765</b>	<b>25,260</b>	<b>446,256</b>	<b>736,079</b>
<b>Transactions with owners</b>					
<i>Contribution by owners</i>					
Appropriation (equity injection)	-	-	-	1,600	1,600
<b>Sub-total transactions with owners</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,600</b>	<b>1,600</b>
<b>Estimated closing balance as at 30 June 2009</b>	<b>34,798</b>	<b>229,765</b>	<b>25,260</b>	<b>447,856</b>	<b>737,679</b>

Prepared on Australian Accounting Standards basis.

*ANSTO Budget Statements*

**Table 3.2.5: Schedule of budgeted income and expenses administered on behalf of Government (for the period ended 30 June)**

ANSTO has no administered income and expenses therefore table 3.2.5 is not presented.

**Table 3.2.6: Schedule of budgeted assets and liabilities administered on behalf of Government (as at 30 June)**

ANSTO has no administered assets and liabilities therefore table 3.2.6 is not presented.

**Table 3.2.7: Schedule of budgeted administered cash flows (for the period ended 30 June)**

ANSTO has no administered cash flows therefore table 3.2.7 is not presented.

### **3.2.4 Notes to the financial statements**

#### **Note 1: Revenues from Government**

Variation in the funding trends for the forward years is due to the disposition of spent reactor fuel from the ANSTO site. Because of planned schedules, appropriation for shipments is not always required each budget year.

#### **Note 2: Employee Expenses**

Employee expenses are based on projected staffing levels and include anticipated salary increases.

#### **Note 3: Supplier Expenses**

The movement in supplier costs for this 2008-09 budget round reflects a scheduled shipment of spent reactor fuel.

#### **Note 4: Finance Cost Expense**

This item reflects interest expense payable on a prepaid lease deposit, and interest related to the unwinding of the discount on the provision for de-commissioning.

#### **Note 5: Inventories**

This item includes consumable stores and reactor fuel elements.

#### **Note 6: Interest Bearing Liabilities**

Represents a prepaid lease arrangement.

#### **Note 7: Other Payables**

Includes GST payable and revenue received in advance.

#### **Note 8: Other Provisions**

Includes a provision for the de-commissioning of infrastructure, plant and equipment at ANSTO's Lucas Heights and Camperdown sites.