

Actuarial Report 31 March 2021

GPS EnergySolutions Section of the Combined Nuclear Pension Plan

8 December 2021

**Deloitte Total Reward and Benefits
Limited**

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1 Introduction

This report has been prepared for the *Trustee* of the GPS EnergySolutions Section of the Combined Nuclear Pension Plan (the “Section”) and sets out the results of the Actuarial Report at 31 March 2021

The purpose of this Actuarial Report is to provide an approximate update of the Section’s funding position at 31 March 2021, following the *actuarial valuation* at 31 March 2019.

This report should be read in conjunction with:

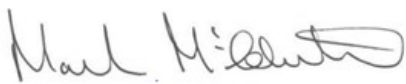
- The *Scheme Funding Report* dated 12 November 2020 for the actuarial valuation at 31 March 2019
- The in-force *Statement of Funding Principles and Schedule of Contributions*, each dated 22 June 2020 and
- The Actuarial Report as at 31 March 2020 dated 31 March 2021

This report has been prepared in accordance with *Technical Actuarial Standard 100*, and reviewed in accordance with Actuarial Professional Standard X2. This report has been drafted on the basis that it will not be used by the Trustee to support decisions on funding, contribution requirements or benefit levels. If this is not the case, please let me know.

This report may not be relied on for any purpose other than that explained above. The funding valuation is not relevant for any other purposes, and in particular is not relevant to the costs and liabilities of the Section to be disclosed by the Employer in its accounts.

In accordance with our terms of engagement, this report is addressed to the Trustee, but copies may be provided to the Employer. It may not be shown to any other party without the express written permission of Deloitte Total Reward and Benefits Limited and we do not accept any liability to any party other than the Trustee in relation to the contents of this Actuarial Report.

A glossary of defined terms can be found in Appendix C.

Signature 	Date 8 December 2021
Name Mark McClintock	Qualification Fellow of the Faculty and Institute of Actuaries

2 Summary of results

At the date of this Actuarial Report there was a surplus on the funding basis of £1,848,000. This is a deterioration since the last actuarial report when the surplus was £1,999,000.

The table below sets out the assets and *Technical Provisions* at 31 March 2021 compared to the position at the date of the last Actuarial Report and the Valuation Date, and the corresponding change in *funding level*.

£000's	31 March 2021 Actuarial Report	31 March 2020 Actuarial Report	31 March 2019 Valuation
Assets	24,294	25,236	27,239
Technical Provisions			
- Total liabilities	22,005	22,669	22,617
- Expenses	441	568	678
Total Technical Provisions	22,446	23,237	23,295
Surplus/(deficit)	1,848	1,999	3,944
Funding level	108%	108%	117%

The scope of this Actuarial Report is limited to considering the funding position at 31 March 2021. Given the Section's buy-in policy with Just Retirement, the funding position of the Section will remain stable and any change is likely to be driven by the value of the non-insured assets.

In addition to the surplus, the Section benefits from an escrow agreement between EnergySolutions Inc and the Trustee. EnergySolutions Inc paid £2.5m into the escrow account during July 2018 and the Trustee may call upon the assets if it requires additional funds to finalise the buyout and windup of the Section. When the windup is completed any assets in the escrow account will be released and surplus assets in the Section are to be returned to the employer.

3 Methodology overview

I have calculated the Technical Provisions as at 31 March 2021 by approximately rolling forward the results of the last actuarial report.

To calculate the Technical Provisions, I have allowed for:

- changes in financial conditions between the Valuation Date and the date of this Actuarial Report;
- actual inflationary increases to deferred benefits and pensions in payment since the last Actuarial Report;
- actual benefit payments and expenses paid out of the Section.

As no new member data has been used for this report, membership movements are implicitly assumed to be in line with the projections made at the valuation.

If actual member experience (e.g. number of deaths or transfers out of the Section) is significantly out of line with expectations, then the liability values calculated using full membership data may be materially different from the estimate given in this report. As the liabilities for the members are secured via a buy-in policy, a fall in the liabilities would also see a corresponding fall in the value of the insured assets with the net funding impact being zero.

4 Experience since the last Actuarial Report

Since the last Actuarial Report, the funding position has deteriorated from a surplus of £1,999,000 to a surplus of £1,848,000.

The key reasons for the change in funding position are a change in the valuation of the non-insured assets and the amount of expenses paid over the year. As the liabilities of the Section are secured via a buy-in policy, any changes in the value of the liabilities shall be matched by a corresponding change in the value of the insured assets.

A summary of the reasons for the change are set out in the table below.

	£000's
Surplus/(deficit) at 31 March 2020	1,999
Interest on the surplus	16
Contributions paid by the Employer	-
Investment returns below the discount rate	(167)
Changes in market conditions	-
Pension increases (in payment and deferment)	-
Surplus/(deficit) at 31 March 2021	1,848

There have been no significant events that have occurred since the effective date of the annual update that has affected the membership profile or the benefits of the Section.

Other developments since the last Actuarial Report

Impact of COVID-19 on assets and financial conditions

COVID-19 has resulted in significant market volatility impacting both asset values and market yields. However, as the Section does not hold any equity or growth-type assets, the Section would not have been affected by the market volatility that occurred after the outbreak of COVID-19.

Impact of COVID-19 on mortality assumptions

In March 2021, the CMI released the latest version of the CMI projections model, CMI 2020. This version incorporates data to the end of 2020 and includes a new parameter (" w_{2020} ") which allows users to change the weight placed on 2020 mortality data used within calculations. Increasing the value of this parameter leads to a decrease in the value of liabilities.

Moving from the core CMI 2018 model to the core CMI 2020 model (which assumes no weight is placed on the 2020 calendar year data) leads to life expectancies at age 65 decreasing for both males and females.

For the purposes of this report, the mortality assumptions used are the same as those used for the 31 March 2019 valuation, with no adjustment made for COVID-19. The Trustee should note that the Section's mortality assumptions will be reviewed at the next funding valuation and updated, taking into consideration market practice and Section mortality experience analysis. However, the Section's mortality risk has been transferred to the insurer so the funding position will not be affected by amending the mortality assumption.

GMP equalisation on transfer value payments

On 20 November 2020 the latest High Court judgement on GMP equalisation in relation to transfer value payments was made. It concluded that historic transfers since 17 May 1990, which contained GMP accrued after this date, will now need to be equalised.

The previous transfers out of the Section have been reviewed and no GMP equalisation uplift is necessary for any of the cases.

Expected change in funding position since 31 March 2021

At the date of this report (December 2021) gilt yields are around 0.4% lower than at 31 March 2021, which has lowered the discount rate. Expected long-term inflation has increased by c.0.2% since 31 March 2021. The net impact will have increased the liabilities since 31 March 2021.

However, the changes in market conditions will not affect the funding position as any change in the Technical Provisions will be matched by a change in the value of the insured annuities.

5 Next steps

The Trustee is required to share the results of this report with the Employer and members

Following receipt of this report the Trustee should:

- Send a copy of this report to the Employer within seven days; and
- Provide a summary funding statement to members within a reasonable period.

The funding position at the date of this Actuarial Report shows a deterioration relative to the position as at 31 March 2020. However, I do not consider it necessary to bring forward the date of the next actuarial valuation if there has not been a significant change in the employer covenant.

The next full actuarial valuation is due at 31 March 2022, if the buyout and windup of the Section hasn't finalised by that date.

An aerial photograph of a turbulent ocean surface. The water is a deep, dark blue, with numerous white, frothy waves and foam breaking across the surface. The texture is highly dynamic and chaotic, with varying shades of blue and white creating a complex pattern. The lighting appears to be bright, possibly from the sun, highlighting the white foam against the darker water.

Appendices

A Assumptions

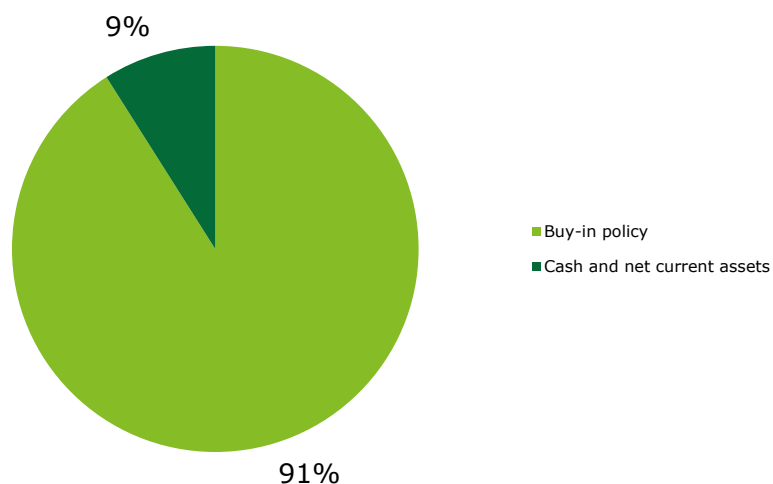
The key financial assumptions used to calculate the Technical Provisions for this Actuarial Report are set out below. The corresponding assumptions used for the last Actuarial Report and the 2019 Valuation are shown for comparison.

These assumptions have been based on the methodologies set out in the in force Statement of Funding Principles, as determined by the Trustee and Employer, and updated for market conditions.

Technical Provisions	31 March 2021 Actuarial Report	31 March 2020 Actuarial Report	31 March 2019 Valuation
Discount rate	Pre-retirement: 0.90%	Pre-retirement: 0.35%	Pre-retirement: 1.10%
	Post-retirement: 1.40%	Post-retirement: 0.85%	Post-retirement: 1.60%
Retail Prices Index (RPI) inflation	3.60%	3.00%	3.60%
Inflation-linked pension increases in payment	3.60%	3.00%	3.60%
Post-retirement mortality	90% SAPS S3 All Pensioners YoB and CMI 2018 projections with a long term trend of 2% p.a.		
Pre-retirement mortality	Same as post-retirement mortality		
Retirement	Age 60 or 65 as applicable to specific members		
Proportion married	85% at date of retirement		
Age difference	Males 3 years older than females		
Cash commutation	No allowance		
Expenses	3% of the Section's liabilities less than actual expenses to the date of calculation		

B Assets

I have used an asset value of £24,294,000. This is based on the audited value in the Trustee's Report and Accounts as at 31 March 2021, excluding Defined Contribution assets.



C Glossary

Key terms used throughout this report are summarised below

Actuarial Report	A report commissioned by the Trustee to provide an update of the Section's funding position at a time between full actuarial valuations
Actuarial valuation or valuation	A review carried out by an actuary under legislation at least every three years to assess whether a pension scheme's assets are sufficient to meet its liabilities and determine the contributions payable to the Plan in the future
Discount rate	The rate used to place a present value on the projected benefit payments
Employer	ATK Energy EU Limited
Funding level	The ratio of the value of assets to the value of the liabilities
Funding valuation	An actuarial valuation of the Section carried under legislation to determine the contributions payable to the Section in future
Guaranteed Minimum Pension ("GMP")	A minimum level of income provided to members of contracted-out pension schemes between 1978 and 1997
Recovery Plan	An agreement between the Trustee and the Employer for payments needed to meet any shortfall between the assets and Technical Provisions
Schedule of Contributions	A schedule setting out the contribution rates and payment dates agreed between the Trustee and the Employer and certified by the Scheme Actuary as being adequate to satisfy the SFO
Scheme Funding Report	A report prepared by the Scheme Actuary setting out the results of the actuarial valuation

Solvency (or buyout) position	The ratio of the assets to the estimated cost of securing the Section's benefits in full with an insurance company
Statutory Funding Objective (SFO)	The requirement that a defined benefit pension scheme should have sufficient and appropriate assets to cover its Technical Provisions
Statement of Funding Principles	The documented policy for meeting the SFO and the principles for determining the assumptions to calculate the Technical Provisions
Technical Actuarial Standard 100	A professional standard issued by the Financial Reporting Council which applies to technical actuarial work
Technical Provisions	The actuarial value of the accrued liabilities of the Section
Trustee	The Trustee of the Section
Valuation Date	31 March 2019



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