

Get rod insertion

Interface Design Description

Service ID: *"get-rod-insertion"*

Abstract

This document describes the service to receive a RodInsertionResponseDTO, which can be used to get the rod insertion percentage, the temperature value it is based on and pressure value.

Contents

1 Overview	3
2 Service Interface	3
2.1 function get-rod-insertion	3
3 Information Model	4
3.1 Object RodInsertionResponse	4

1 Overview

This service returns a RodInsertionResponse which contains the percentage value the rods should be inserted at, along with the temperature the insertion percentage is based on and the scale of the temperature value.

2 Service Interface

This section contains the service interface with an example response.

2.1 GET /rod-insertion

Function: **get-rod-insertion**

Called to receive a RodInsertionResponse.

```
1 GET /latest-pressure HTTP/1.1
2 {
3     "temperatureReading": 100,
4     "temperatureScale": "celsius",
5     "rodInsertionPercentage": 10,
6 }
```

Listing 1: Example of a response from the rod-insertion endpoint.

3 Information Model

Here the RodInsertionResponse object will be described with its fields and types.

3.1 Object **RodInsertionResponse**

Field	Type	Description
rodInsertionPercentage	integer	Percentage value representing how much of the control rods to insert.
temperatureValue	integer	Reactor temperature the rodInsertionPercentage is based on.
temperatureScale	string	Scale of the temperature value