

## **INFORMATIONAL GUIDE**

# HOW CRPN PENSIONS ARE CALCULATED Decree No. 2011-1500/2018-337

Applicable to entitlements with an effective date on or after May 7, 2018

CRPN pensions are calculated according to the rules set forth by articles R6527-34, R6527-36 à R6527-41, R6527-43 à R6527-46 of the French transport code. To ensure that we accurately adhere to the provisions of these articles, given that the terms of the decree are stated in **yearly** values, our calculation rules are based on average indexed **daily** earnings.

#### ARTICLES R6527-36 TO R6527-38: CARFER AVERAGE INDEXED FARNINGS

A member's average indexed daily earnings value (**Sqm**) is calculated based on their Career indexed yearly earnings (**SIC**). The Career indexed yearly earnings value (SIC) is equal to **a year's** contribution-liable earnings divided by the Adjusted Wage Variation Index (**IVSC**) applicable to the given pay period.

<u>N.B.</u>: Contribution-liable earnings are stated in French francs through 2001 and in Euros from 2002 on. When pensions are calculated, all indexed earnings are stated in Euros.

◆ Case No. 1: TT<sup>(1)</sup> time less than or equal to 9,000 days, or 25 years

The member's average indexed daily earnings value (**Sqm**) is equal to the sum of their indexed yearly earnings ( $\Sigma$  **SIC**) divided by their total number of days (**TT**) accrued through contributions.

 $Sqm = \sum SIC / TT$ 

Case No.2: temps TT<sup>(1)</sup> time greater than 9,000 days, or 25 years

The member's average indexed daily earnings value for the 25 best years ( $\mathbf{Sqm}_{25}$ ) is equal to the sum of their 25 best indexed yearly earnings ( $\mathbf{\Sigma SIC}_{25}$ ) divided by 9,000 days.

 $Sqm_{25} = \sum SIC_{25} / 9000$ 

### ARTICLES R6527-39 TO R6527-41: TOPPED-UP AVERAGE INDEXED EARNINGS

When a member has accrued more than twenty-five years through contributions, the earnings for their additional years are partially taken into account toward their pension calculation, regardless of whether these additional years were accrued through contributions or free of charge pursuant to article R6527-28, paragraphs 5 and 6 of the French transport code (on condition that the member had accrued 20 years of civil service as of July 1, 1995). Any service credited free of charge to the member's account must have been preceded and followed by periods of civil service.

The member's topped-up average indexed daily earnings value (**Smimq**) is calculated as follows:

Smimq =  $(Sqm_{25} \times (9000+NJV \times TV))_{+} ((\Sigma SIC - 9000 \times Sqm_{25}) \times TV)$ 

(1) Length of career is taken into account as follows: TT = Total Time in days accrued through contributions (one year = 360 days and one month = 30 days)



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#### **Definitions:**

"a" is the lower of the following two values: either the total number of days accrued through contributions over the member's career TT<sup>(1)</sup> or a reference number of days that has been set for the year the pension becomes payable, according to the table below:

Year	Reference number of days				
2012	9,360				
2013	9,720				
2014	10,080				
2015	10,440				
2016	10,800				
2017	11,160				
2018	11,520				
2019	11,880				

Year	Reference number of days				
2020	12,240				
2021	12,600				
2022	12,960				
2023	13,320				
2024	13,680				
2025	14,040				
2026	14,400				
2027 and beyond	TT <sup>(1)</sup>				

- (1) TT: Total Time in days accrued through contributions
- ◆ **NJV**: periods counted in days, preceded and followed by civil service, and credited to the member's account pursuant to article R6527-28, paragraphs 5 and 6 of the French transport code.
- **ΣSIC**: sum of the member's career indexed earnings.
- ◆ TV is the valuation rate for years beyond the member's best 25. It is capped at 1:

The "b" value is determined by the member's pension effective year, as shown in the table below:

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021 and beyond
b	0.002	0.004	0.006	800.0	0.010	0.012	0.014	0.016	0.018	0.020

### ARTICLES R6527-34 & R6527-44: HOW MONTHLY PENSIONS ARE CALCULATED

Pensions can be made up of the three components listed below: Pension, Bonus, and Top-up:

- When a member's pension is calculated, "TT" time taken into account is capped at their number of "a" days, as determined by their pension effective year (see table above).
- "TT" time taken into account when calculating any top-up or bonus is capped at 9,000 days (25 years).

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## Monthly pension (P)

When a member's pension is calculated, their career average salary is divided into two separate amounts on the basis of France's yearly social security ceiling (yearly PSS).

- The 1<sup>st</sup> amount is capped at k times the <sup>yearly</sup> PSS, with k serially increasing from 3.55 in 2012 to 4 in 2021 (3.6 in 2013, 3.65 in 2014, 3.7 in 2015, 3.75 in 2016, 3.8 in 2017, 3.85 in 2018, 3.9 in 2019, 3.95 in 2020, and 4 in 2021).
- The 2<sup>nd</sup> amount is capped at 8 times France's yearly social security ceiling (yearly PSS).

The 1<sup>st</sup> amount is assigned a pension rate of 1.85% per year accrued (capped at the member's number of "a" days, as determined by their pension effective year, divided by 360) and the 2<sup>nd</sup> amount is assigned a rate of 1.40%. The sum of these two amounts is then multiplied by the "**IVSC**" (adjusted wage variation index).

♦ If Sqm or Smimq < the cap of the 1st daily amount, or k(yearly PSS) /360/IVSC

P = Sqm ou Smimq x 1,85 $^{\circ}$  /12 × a × IVSC - any rate reduction<sup>(1)</sup>

If Sqm or Smimq ≥ the cap of the 1<sup>st</sup> daily amount, or k(yearly PSS) /360/IVSC

P = [(Sqm ou Smimq x 
$$\underline{1,40\%}$$
)<sub>+</sub> ( $\underline{k}$ ( $\underline{daily}$  PSS) x ( $\underline{1,85\%}$ - $\underline{1,40\%}$ ))] × a × IVSC – rate reduction<sup>(1))</sup>
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**a** = is the lower of the following two values: either the total number of days accrued through contributions over the member's career TT or a reference number of days that has been set for the year the pension becomes payable, as shown in the table above:

**PSS** = France's social security ceiling

### Monthly Bonus (B)

The monthly bonus is paid if a member has had, or qualifies as having raised, at least three children:

 $B = \frac{\text{yearly PSS}}{12 \times 0.12\% \times \text{Min}(9000, TT)}/360 - \text{any rate reduction}^{(1)}$ 

**TT** = total time in days accrued through contributions



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## Monthly top-up (M)

The top-up is paid when a pension is claimed with no rate reduction beginning at or after the age of full-rate entitlement, the year the pension becomes payable, and continuing up to the age appearing in article L.161-17-2 of the French Social Security code. The top-up is calculated as follows:

 $M = yearlyPSS/12 \times 0.8\% \times Min(9000,TT)/360$ 

**TT** = total time in days accrued through contributions

(1) Rate reduction (article R6527-22 of the French transport code)
Any rate reduction is calculated on the basis of the difference between the member's age, year count, or "age + year count" differential and a benchmark age, year count, or "age + year count" differential.

	Pe	ensions made	payable before ago	Pensions made payable at or after age 55				
Year	Benchmark age	Benchmark year count	How the 2 differentials are calculated	How the rate reduction is calculated	Benchmark age + year count	How the differential is calculated	How the rate reduction is calculated	
2012	50.5	26	Age differential = (benchmark age – member's age)		76			
2013	51	26.5			76.5			
2014	51.5	27		– member's age)		77	"Age + year	
2015	52	27.5		Bigger of	77.5	count" differential	"Age + year	
2016	52.5	28	and	the 2 differentials	78	= ( reference "age + year	count"	
2017	53	28.5	Year count differential = (benchmark year count – member's year		X 5%	78.5	count "-	differential X 5%
2018	53.5	29			79	member's "age + year		
2019	54	29.5		count – member's year		79.5	count")	
2020	54.5	30				80		
2021	55	30	count)		80			

### From 2022, the rate reduction is calculated as follows:

Rate reduction = (number of reference annuities for full rate – number of annuities validated by the member) x 5%

To find out the number of reference annuities for the full rate, refer to the <u>summary table of conditions of liquidation</u> from November 1, 2023.

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