

Attachment No.4 to Scope of Work

Gaseous nitrogen supply services for OS-1 LK-2 Penex reactor R-102 during catalyst reloading

Date: 29/04/2026, Rev. 0

Requirements for nitrogen to Penex reactor R-102

#	Parameter	Units	Min	Max
1	Flowrate of nitrogen to R-102	nm ³ /hr (20°C and 0 bar_g)	-	530
2	Pressure of nitrogen to R-102	bar_g	-	2,4
3	Temperature of nitrogen to R-102	°C	5	30
4	Required quantity of nitrogen	tn	15	30
#	Composition	Units	Min	Max
5	Nitrogen purity	vol. %	99,7	-
6	CO in nitrogen	ppm	-	20
7	CO ₂ in nitrogen	ppm	-	20
8	Other carbon compounds	ppm	-	5
9	Chlorine	ppm	-	1
10	Water	ppm	-	5
11	Hydrogen	ppm	-	20
12	Oxygen	ppm	-	5
13	Noble gas	remains	remains	