MSG No. 158.57 $P3c1$ [Type I, trigonal]

Table 1: Wyckoff site: 2a, site symmetry: 3..

No.	position	mapping
1	$[0,\, 0,\, z]$	[1,2,3]
2	$\left[0,\, 0,\, z+\frac{1}{2}\right]$	[4,5,6]

Table 2: Wyckoff site: 2b, site symmetry: 3..

No.	position	mapping
1	$\left[\frac{1}{3},\, \frac{2}{3},\, z\right]$	[1,2,3]
2	$\left[\frac{1}{3},\, \frac{2}{3},\, z+\frac{1}{2}\right]$	[4,5,6]

Table 3: Wyckoff site: 2c, site symmetry: 3..

No.	position	mapping
1	$\left[\frac{2}{3},\, \frac{1}{3},\, z\right]$	[1,2,3]
2	$\left[\frac{2}{3},\, \frac{1}{3},\, z+\frac{1}{2}\right]$	[4,5,6]

Table 4: Wyckoff site: 6d, site symmetry: 1

No.	position	mapping
1	$[x,\, y,\, z]$	[1]
2	$[-y,\, x-y,\, z]$	[2]
3	$[-x+y,\, -x,\, z]$	[3]
4	$\left[-x+y,\, y,\, z+\frac{1}{2}\right]$	[4]
5	$\left[-y,\, -x,\, z+\frac{1}{2}\right]$	[5]
6	$\left[x,\, x-y,\, z+\frac{1}{2}\right]$	[6]