MSG No. 156.50 $P3m11'$ [Type II, trigonal]

Table 1: Wyckoff site: 1a, site symmetry: 3m.1'

No.	position	mapping
1	$[0, 0, z]$	[1,2,3,4,5,6,7,8,9,10,11,12]

Table 2: Wyckoff site: 1b, site symmetry: 3m.1'

No.	position	mapping
1	$\left[\frac{1}{3}, \frac{2}{3}, z\right]$	[1,2,3,4,5,6,7,8,9,10,11,12]

Table 3: Wyckoff site: 1c, site symmetry: 3m.1'

No.	position	mapping
1	$\left[\frac{2}{3}, \frac{1}{3}, z\right]$	[1,2,3,4,5,6,7,8,9,10,11,12]

Table 4: Wyckoff site: 3d, site symmetry: .m.1'

No.	position	mapping
1	$[x, -x, z]$	[1,5,7,11]
2	$[x, 2x, z]$	[2,6,8,12]
3	$[-2x, -x, z]$	[3,4,9,10]

Table 5: Wyckoff site: 6e, site symmetry: 11'

No.	position	mapping
1	$[x, y, z]$	[1,7]
2	$[-y, x-y, z]$	[2,8]
3	$[-x+y, -x, z]$	[3,9]
4	$[-x+y, y, z]$	[4,10]
5	$[-y, -x, z]$	[5,11]
6	$[x, x-y, z]$	[6,12]