MSG No. 157.53 $P31m$ [Type I, trigonal]

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

No.	position	mapping
1	$[0,\,0,\,z]$	[1,2,3,4,5,6]

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	$\left[\frac{2}{3},\,\frac{1}{3},\,z\right]$	[4,5,6]

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

No.	position	mapping
1	$[x,\,0,\,z]$	[1,5]
2	$[0,\,x,\,z]$	[2,6]
3	$[-x,\,-x,\,z]$	[3,4]

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	$[-x,\,-x+y,\,z]$	[4]
5	$[x-y,\,-y,\,z]$	[5]
6	$[y,\,x,\,z]$	[6]