

MSG No. 61.434  $Pbca1'$  [ Type II, orthorhombic ]

Table 1: Wyckoff site: 4a, site symmetry:  $-11'$

No.	position	mapping
1	$[0, 0, 0]$	$[1, 5, 9, 13]$
2	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[2, 6, 10, 14]$
3	$[0, \frac{1}{2}, \frac{1}{2}]$	$[3, 7, 11, 15]$
4	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[4, 8, 12, 16]$

Table 2: Wyckoff site: 4b, site symmetry:  $-11'$

No.	position	mapping
1	$[0, 0, \frac{1}{2}]$	$[1, 5, 9, 13]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[2, 6, 10, 14]$
3	$[0, \frac{1}{2}, 0]$	$[3, 7, 11, 15]$
4	$[\frac{1}{2}, 0, 0]$	$[4, 8, 12, 16]$

Table 3: Wyckoff site: 8c, site symmetry:  $11'$

No.	position	mapping
1	$[x, y, z]$	$[1, 9]$
2	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	$[2, 10]$
3	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	$[3, 11]$
4	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	$[4, 12]$
5	$[-x, -y, -z]$	$[5, 13]$
6	$[\frac{1}{2} - x, y + \frac{1}{2}, z]$	$[6, 14]$
7	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	$[7, 15]$
8	$[x + \frac{1}{2}, y, \frac{1}{2} - z]$	$[8, 16]$