

## NUCLEAR DETECTORS SELECTION LISTS

1. Select energy range \_\_\_\_\_ keV to \_\_\_\_\_ MeV

Options: IGC P-type HPGe coaxial 40keV to 10MeV  
NIGC N-type HPGe coaxial 4keV to 10MeV  
Specials: IGP P-type HPGe planar 0.2keV to 1MeV  
NIGP N-type HPGe semi-planar 3keV to 1MeV  
IGW P-type HPGe coaxial well 10keV to 10MeV

2. Select relative efficiency \_\_\_\_\_ %

Options: 10% (small crystal) to 100% (large crystal)

3. Select energy resolution \_\_\_\_\_ FWHM at \_\_\_\_\_

Options: 1.75keV to 2.40keV FWHM at 1.33MeV (<sup>60</sup>Co source)  
485eV to 1.4keV FWHM at 122keV (<sup>57</sup>Co source)  
165eV to 1.2keV FWHM at 5.9keV (<sup>55</sup>Fe source)

4. Select orientation style \_\_\_\_\_

Options: Vertical dipstick (most common configuration)  
Horizontal elbow  
Horizontal side-looker  
Vertical down-looker  
Multipurpose portable

5. Select special options \_\_\_\_\_

Examples: Mechanical cooled  
Low-background

6. Select purchase priority \_\_\_\_\_

Options: Budgetary  
Long-term (>1 year)  
Short-term (<1 year)  
Immediate (<3 months)